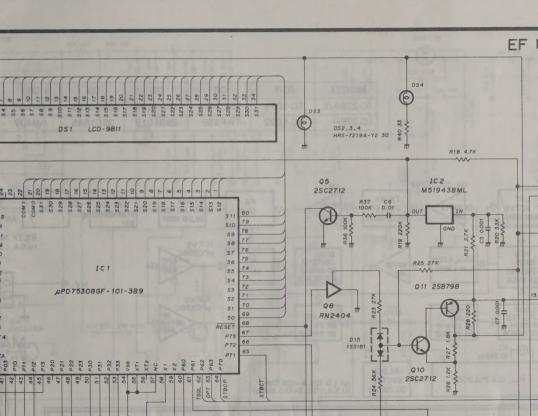
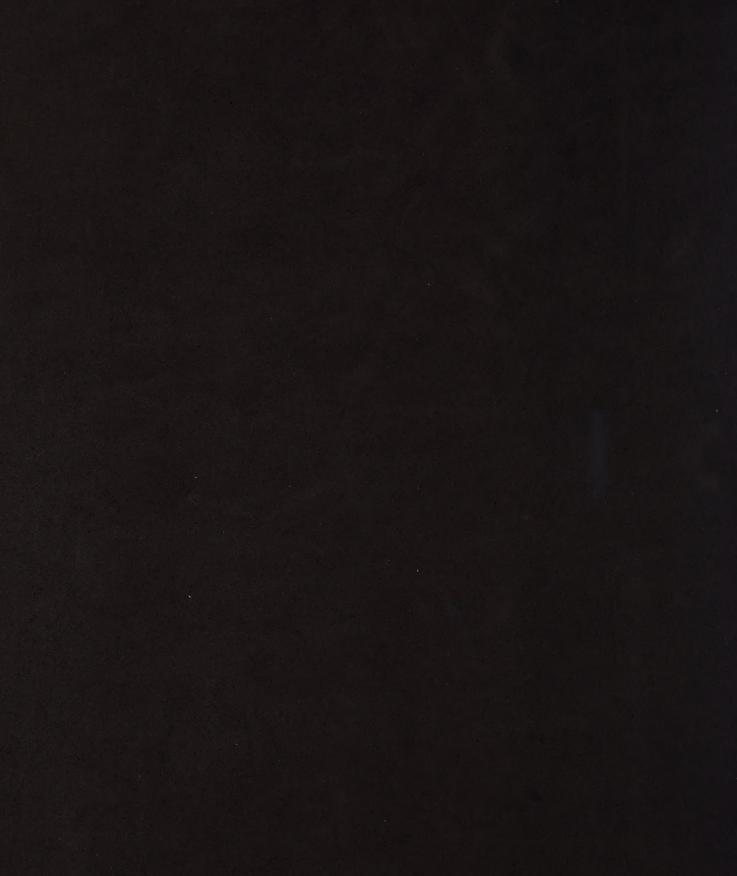
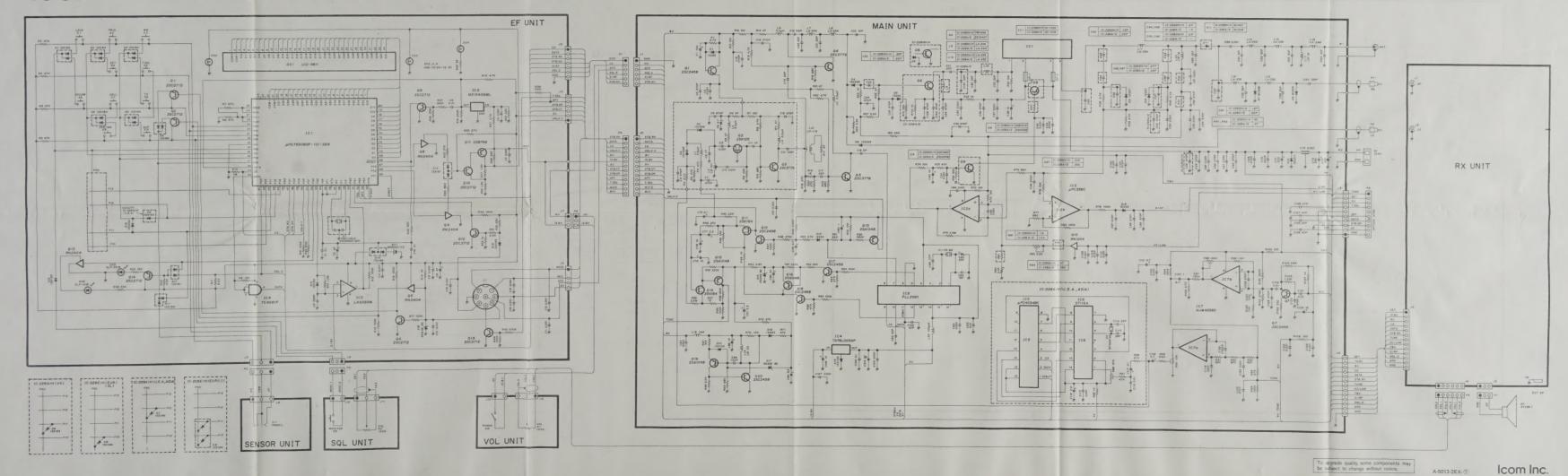
A IC-228E IC-228H

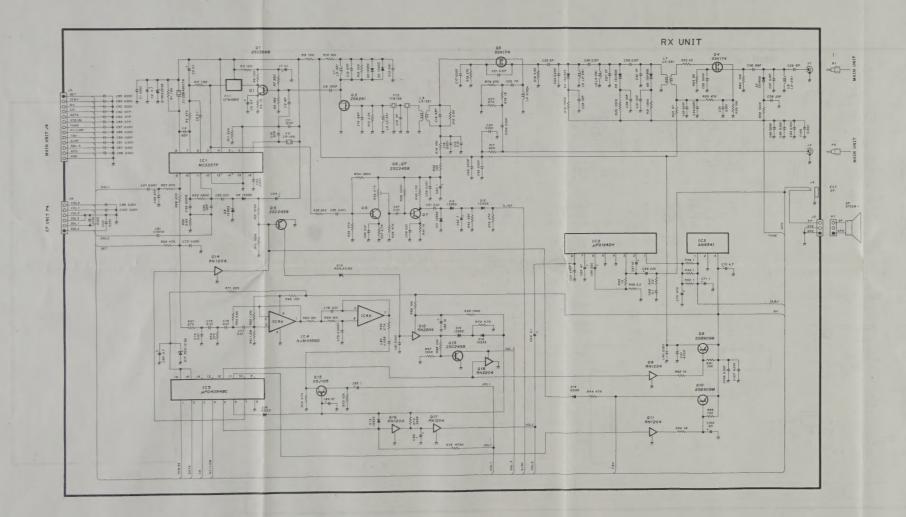




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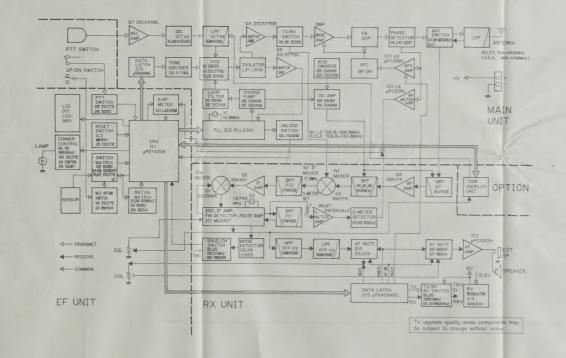
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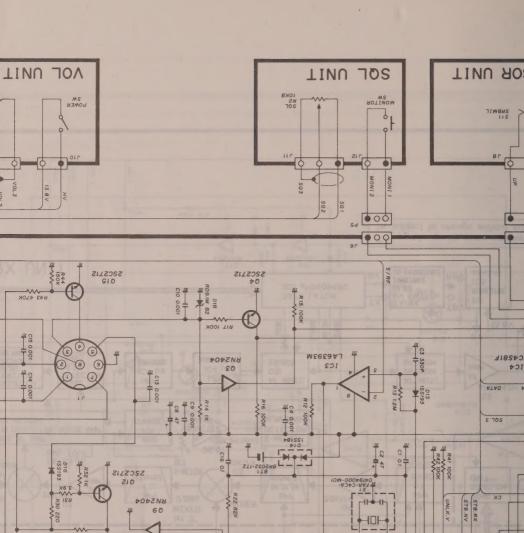




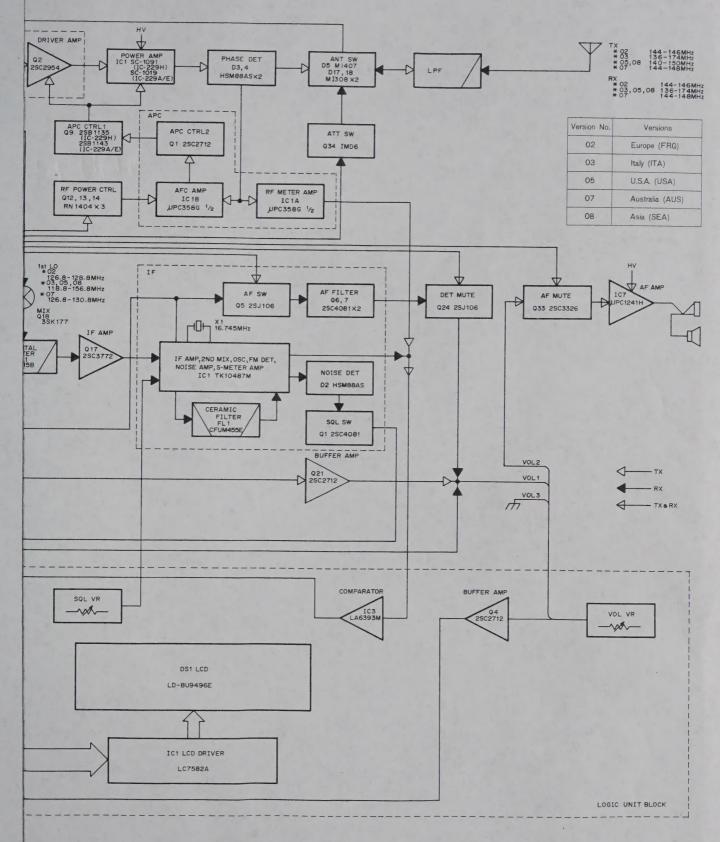
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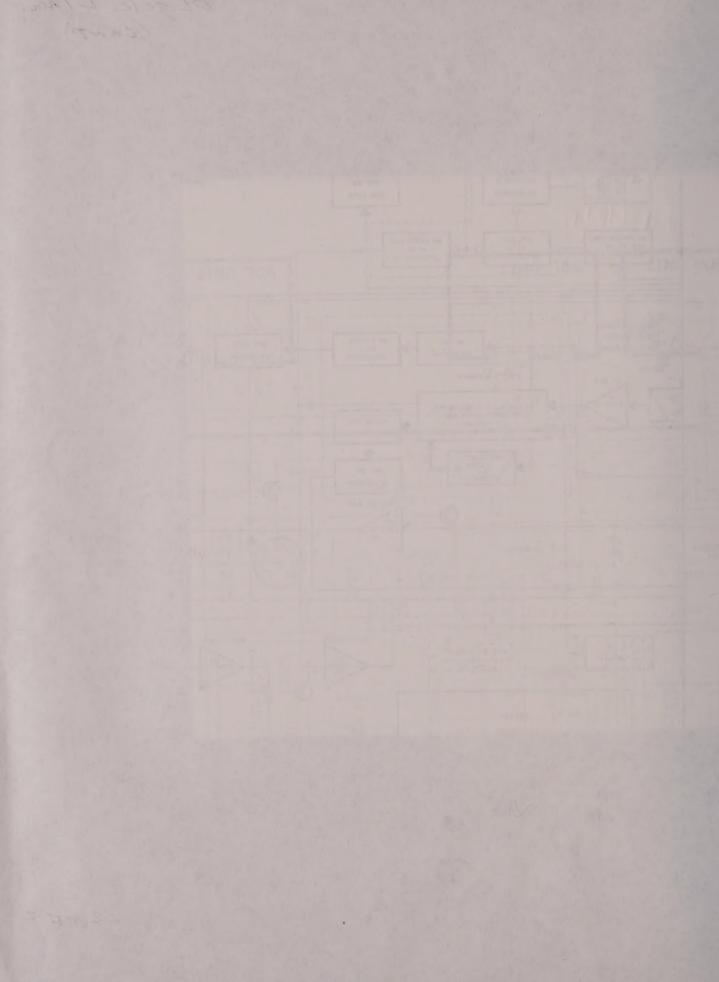
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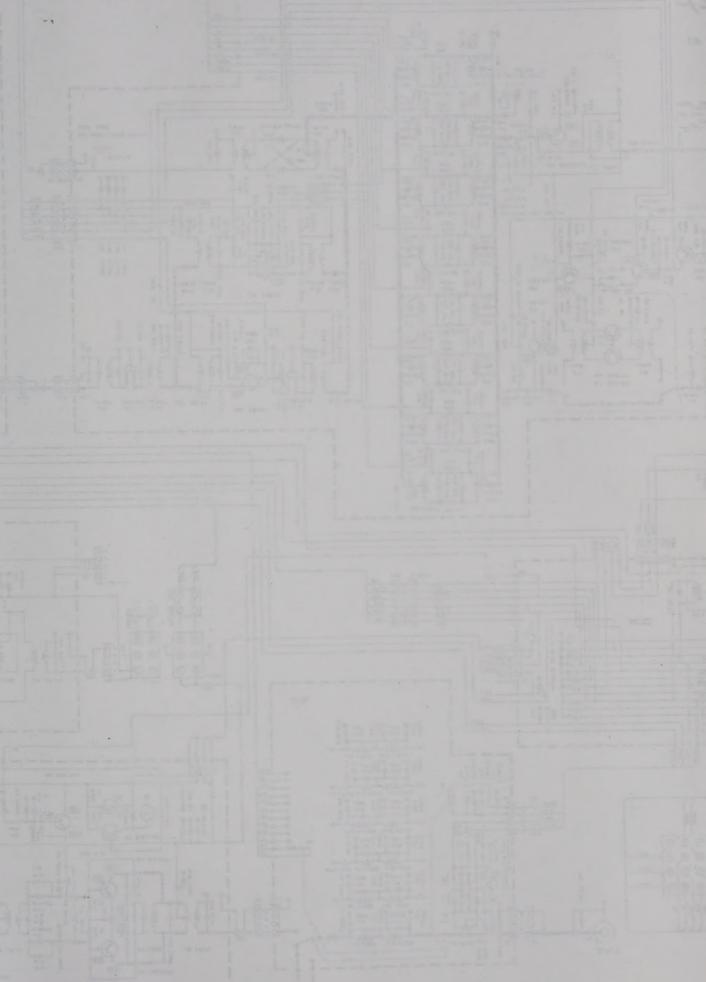


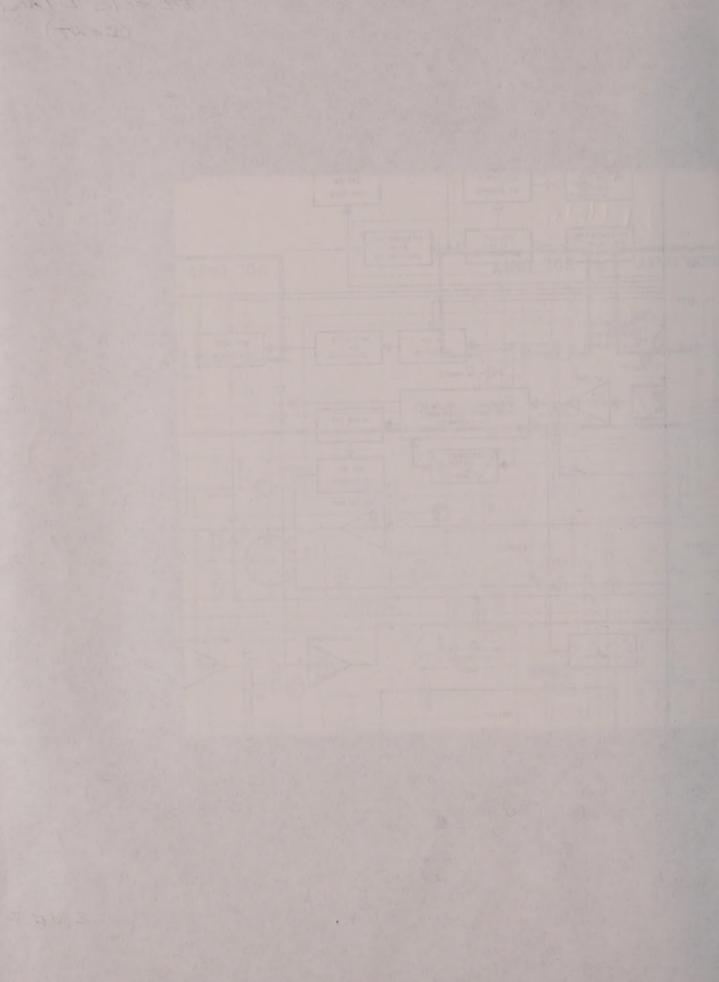


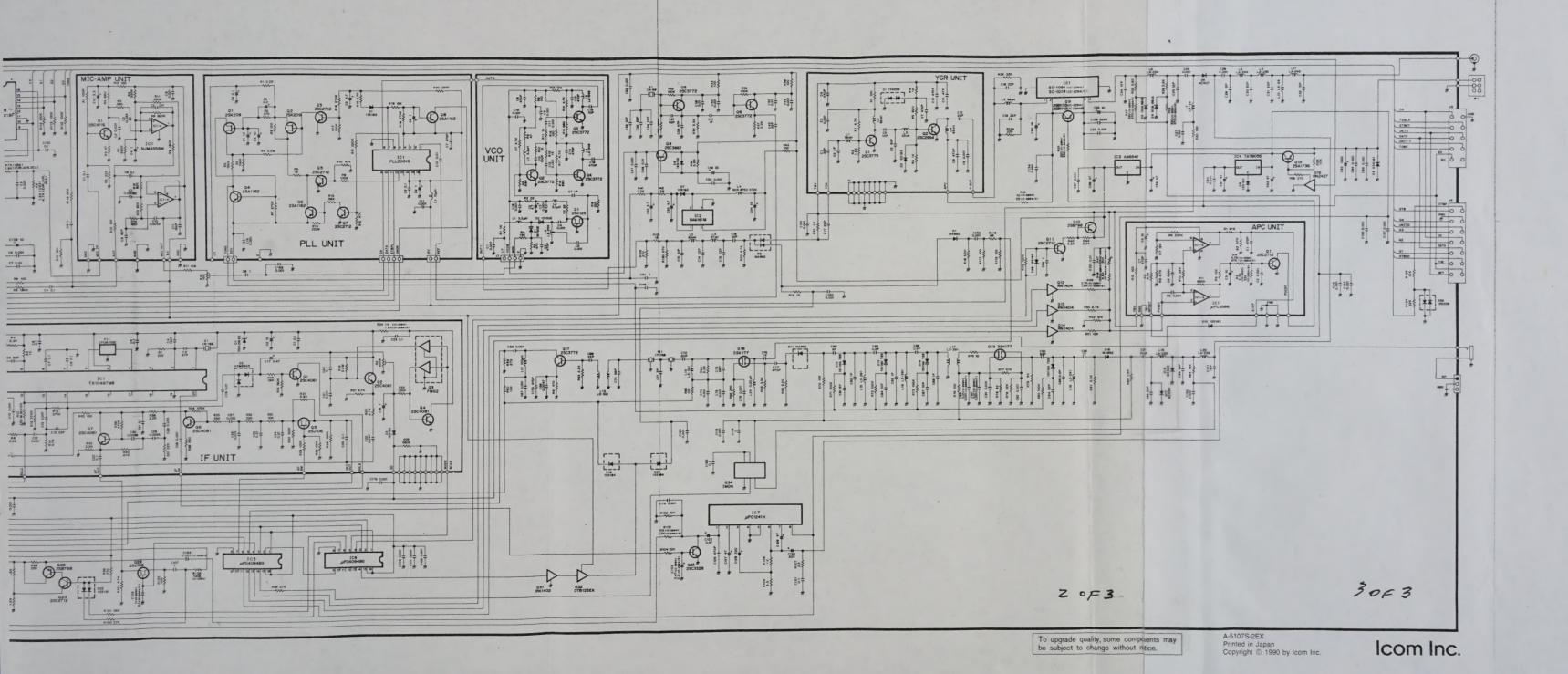
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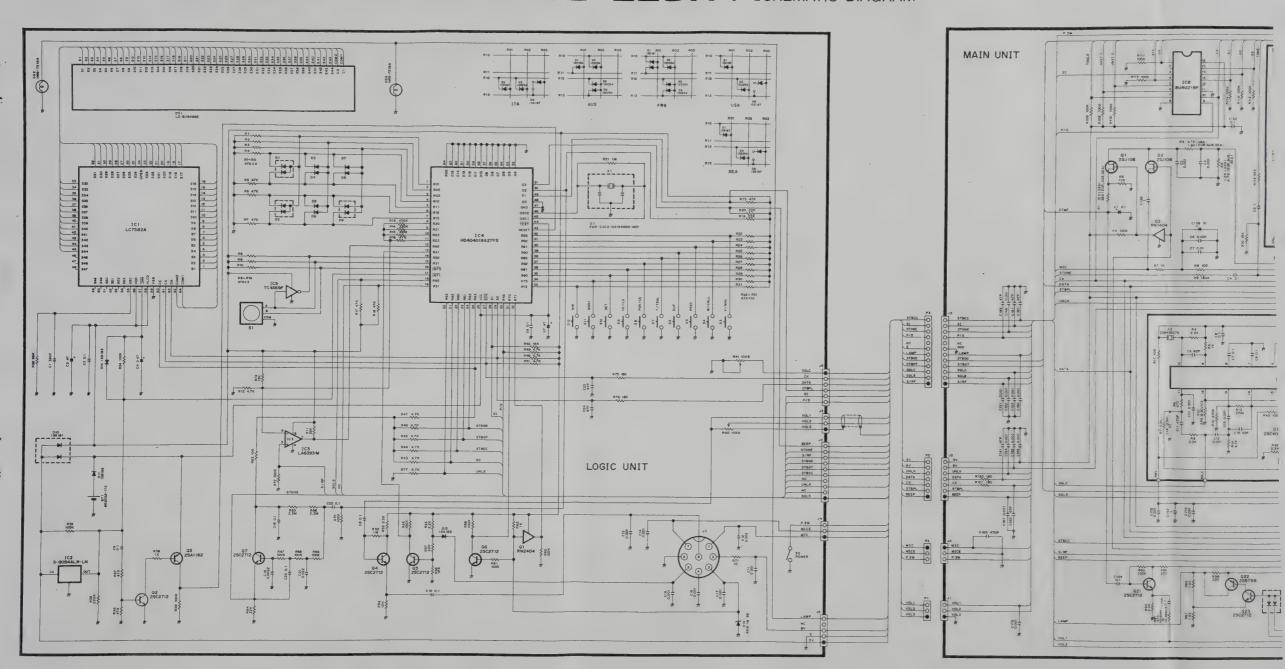


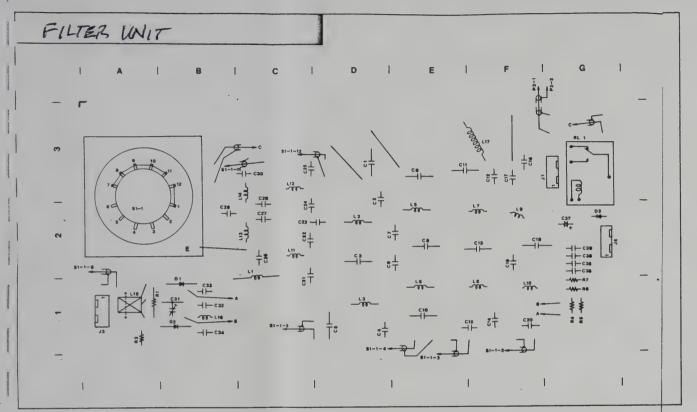


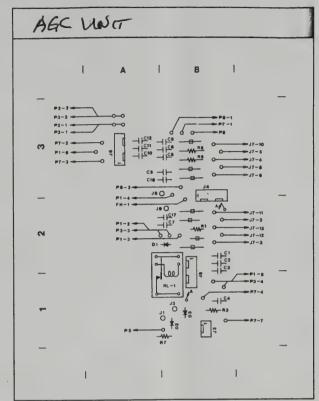


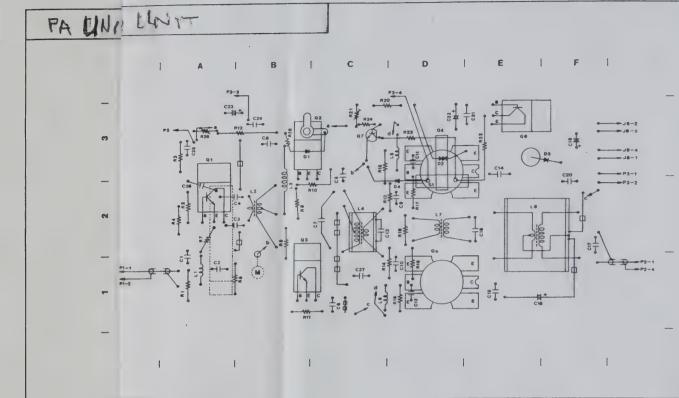


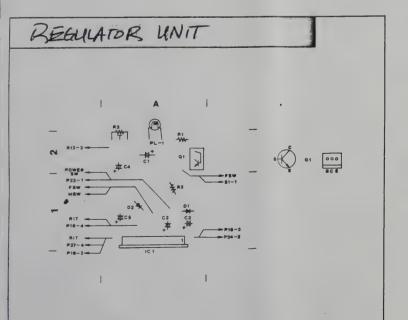


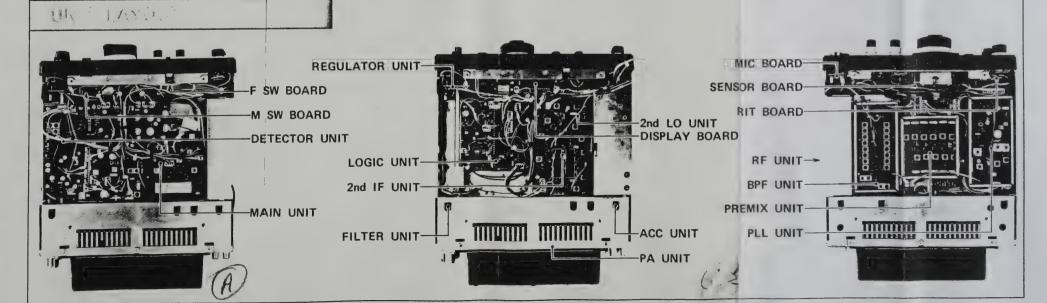










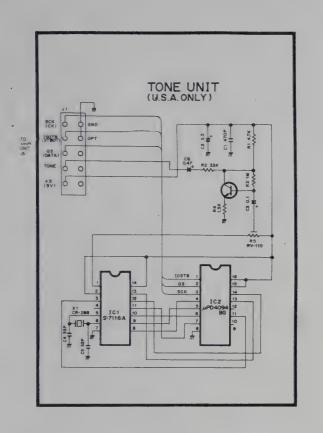


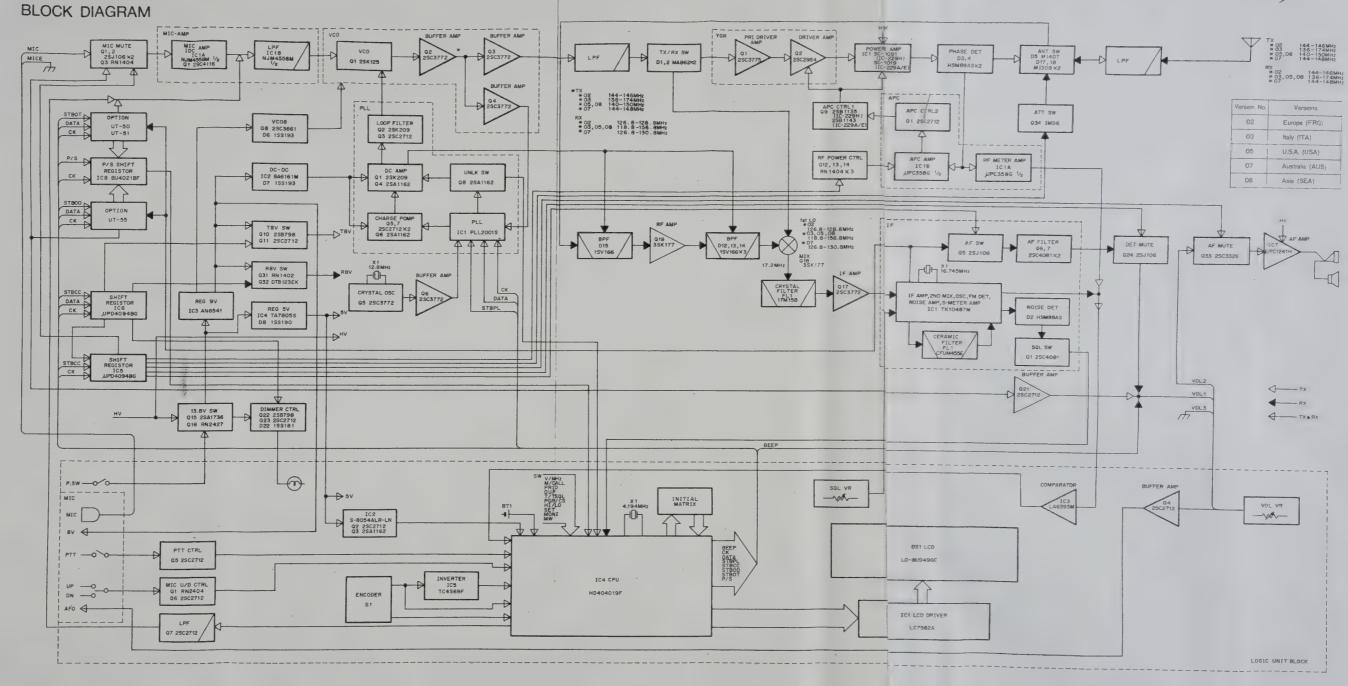


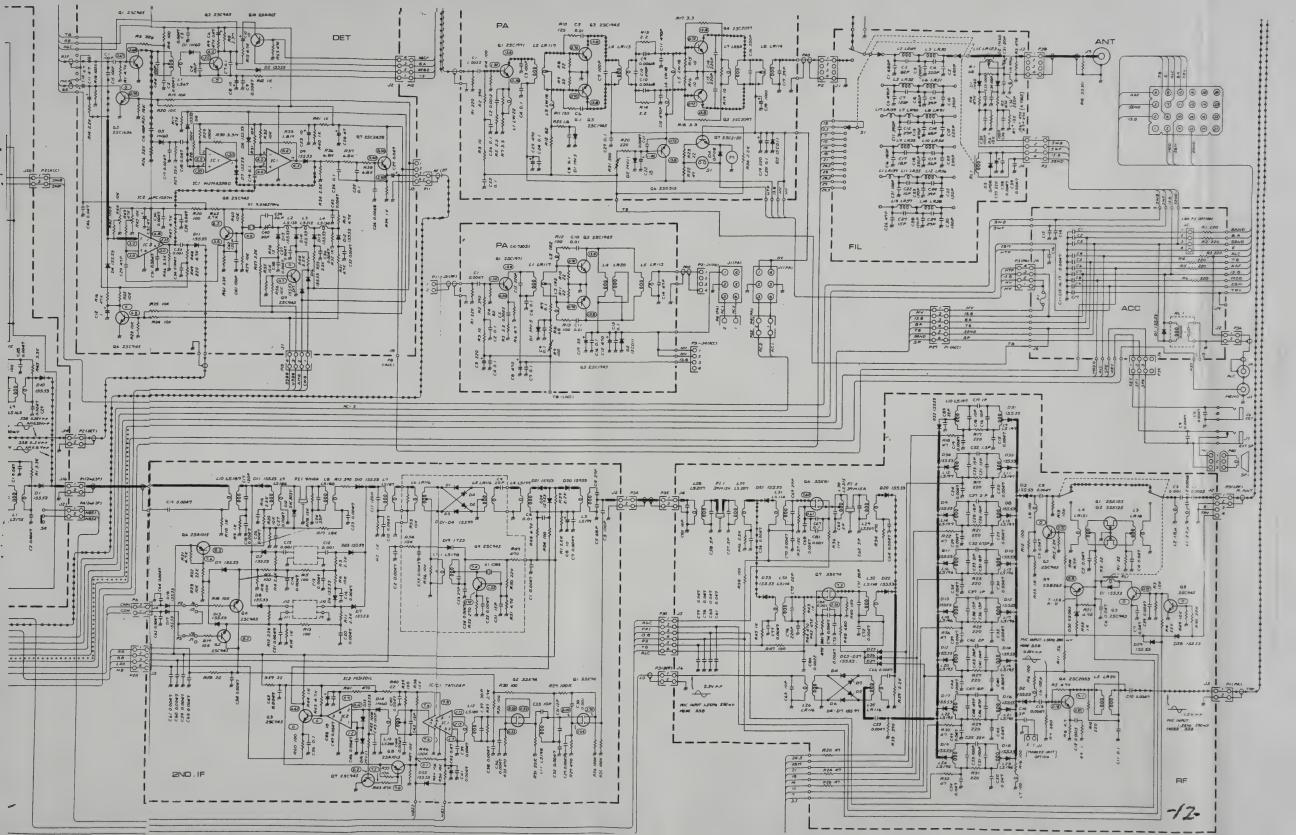
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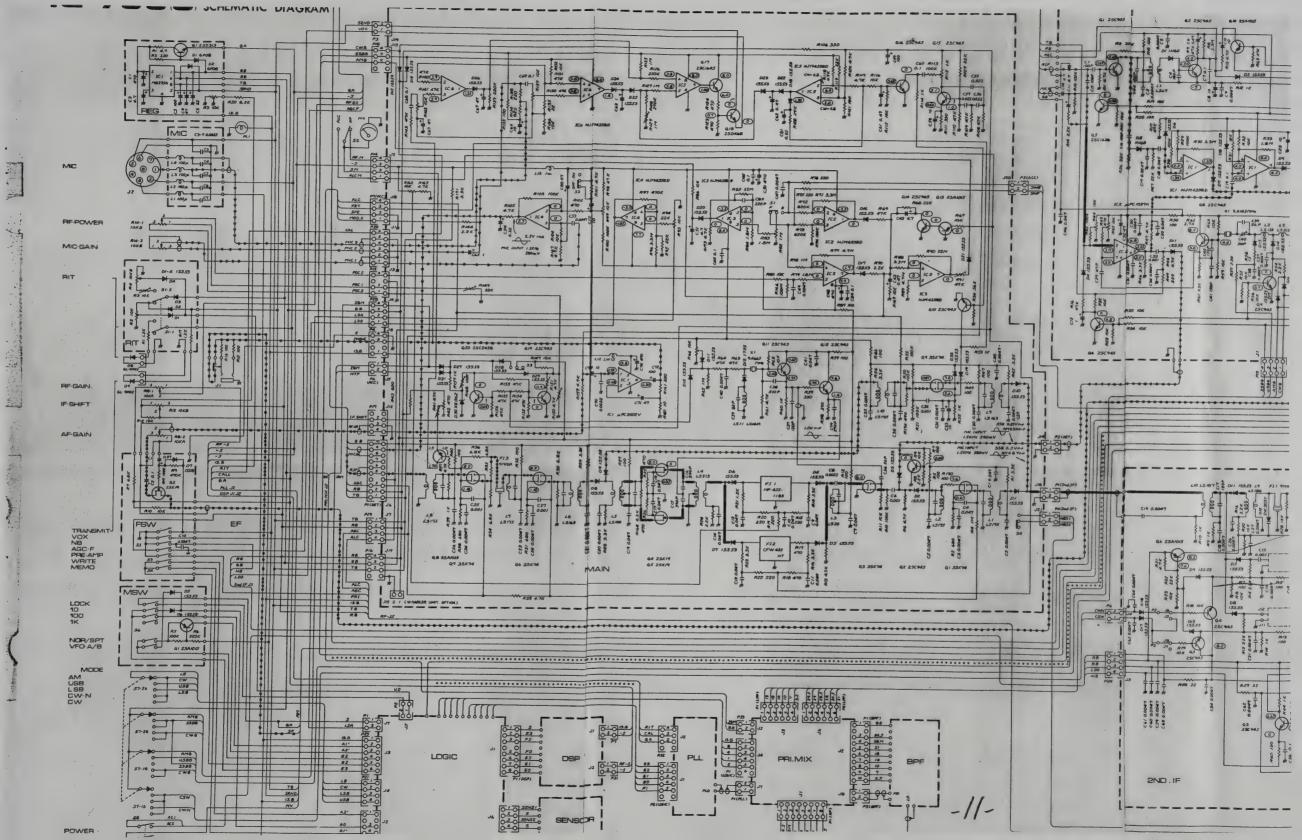
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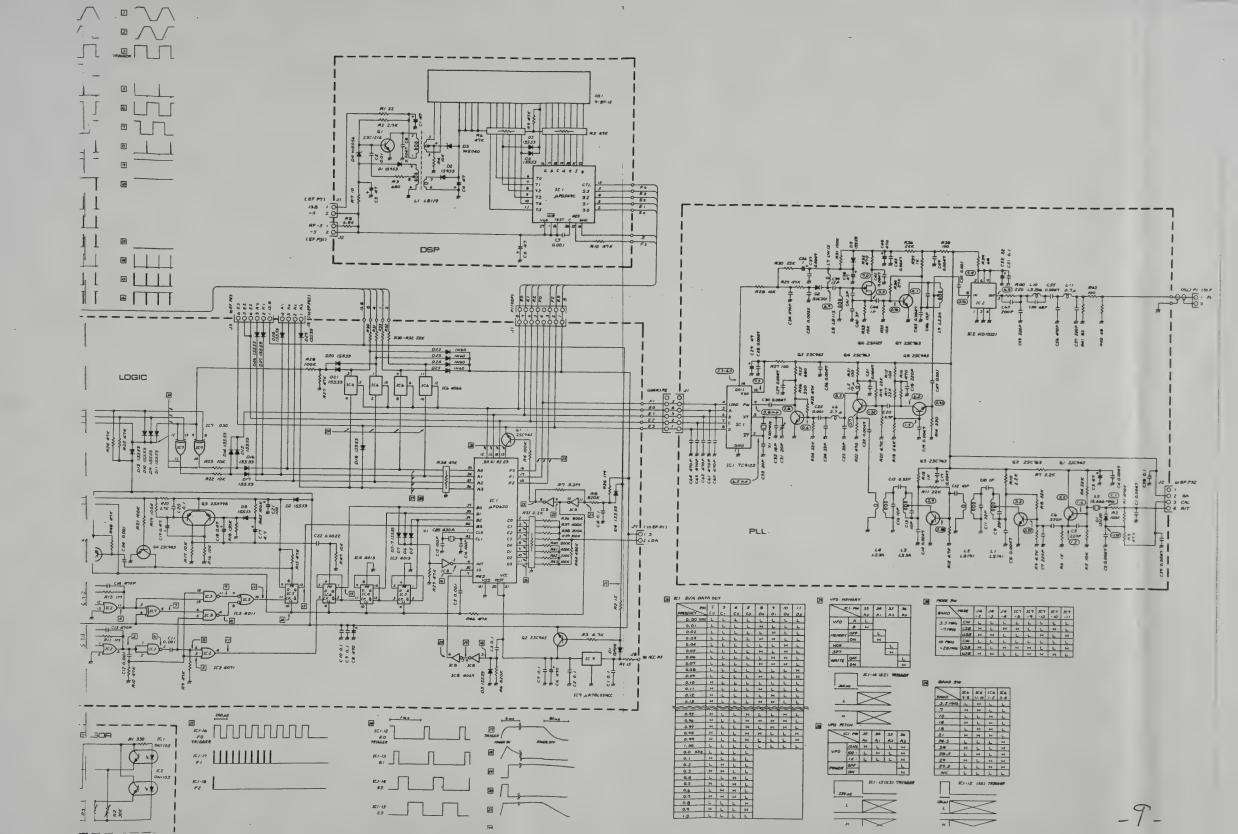
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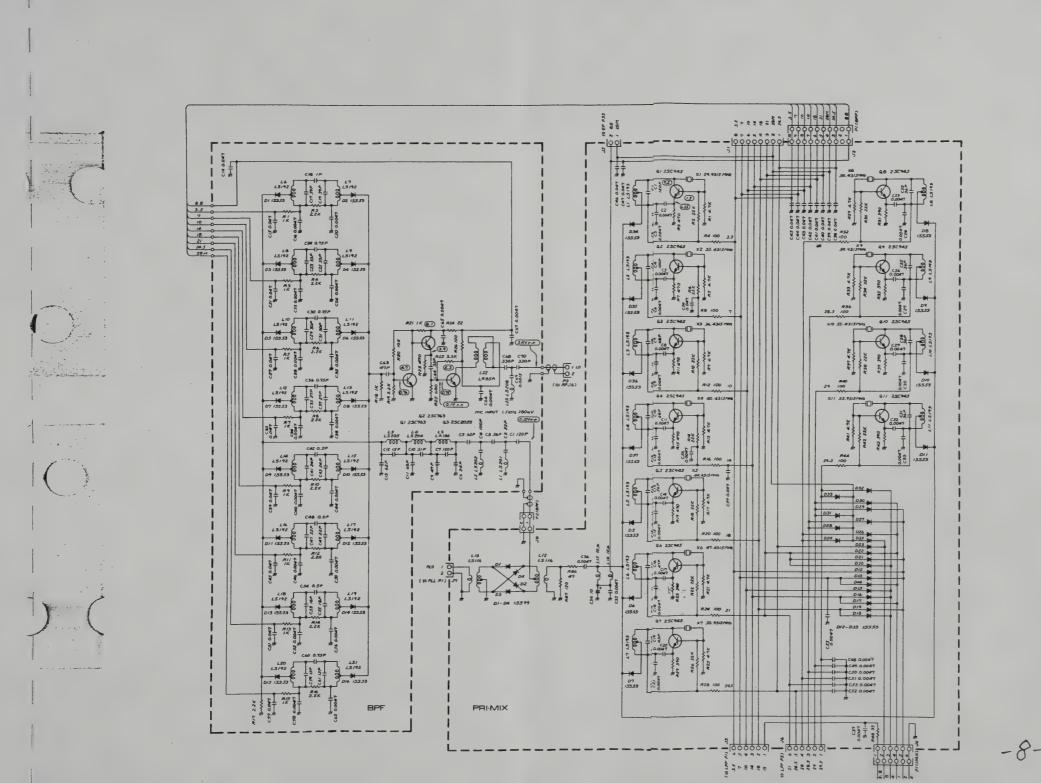


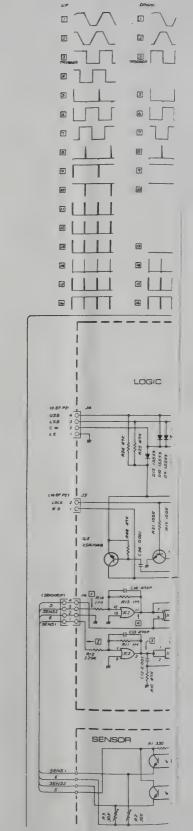


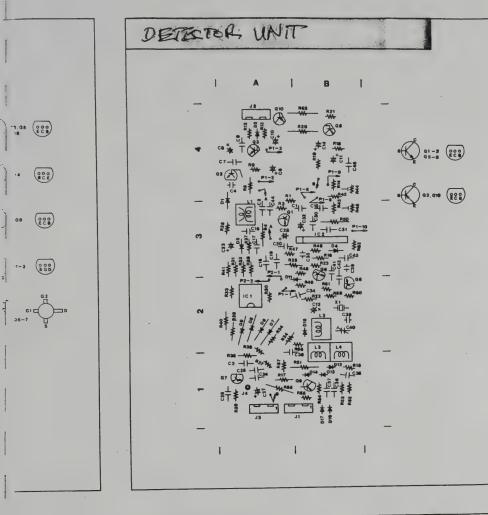


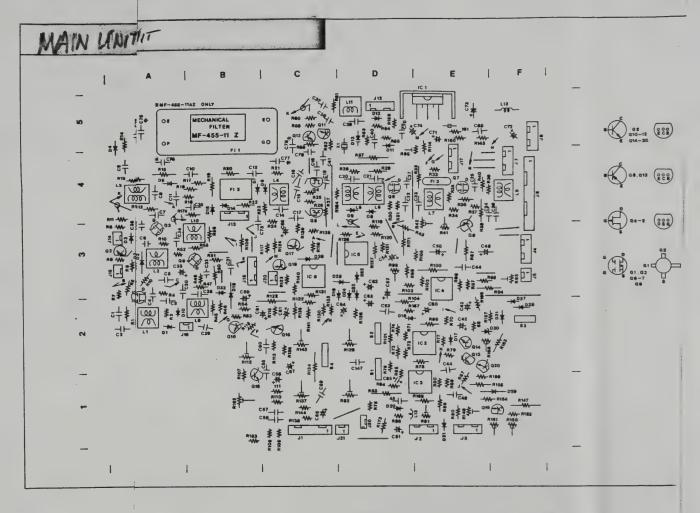


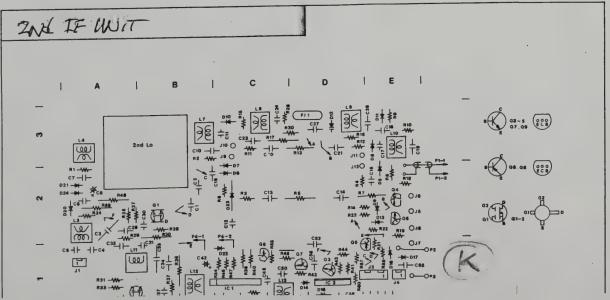


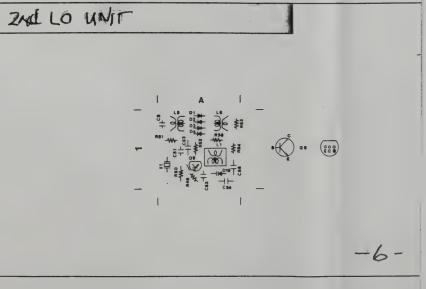








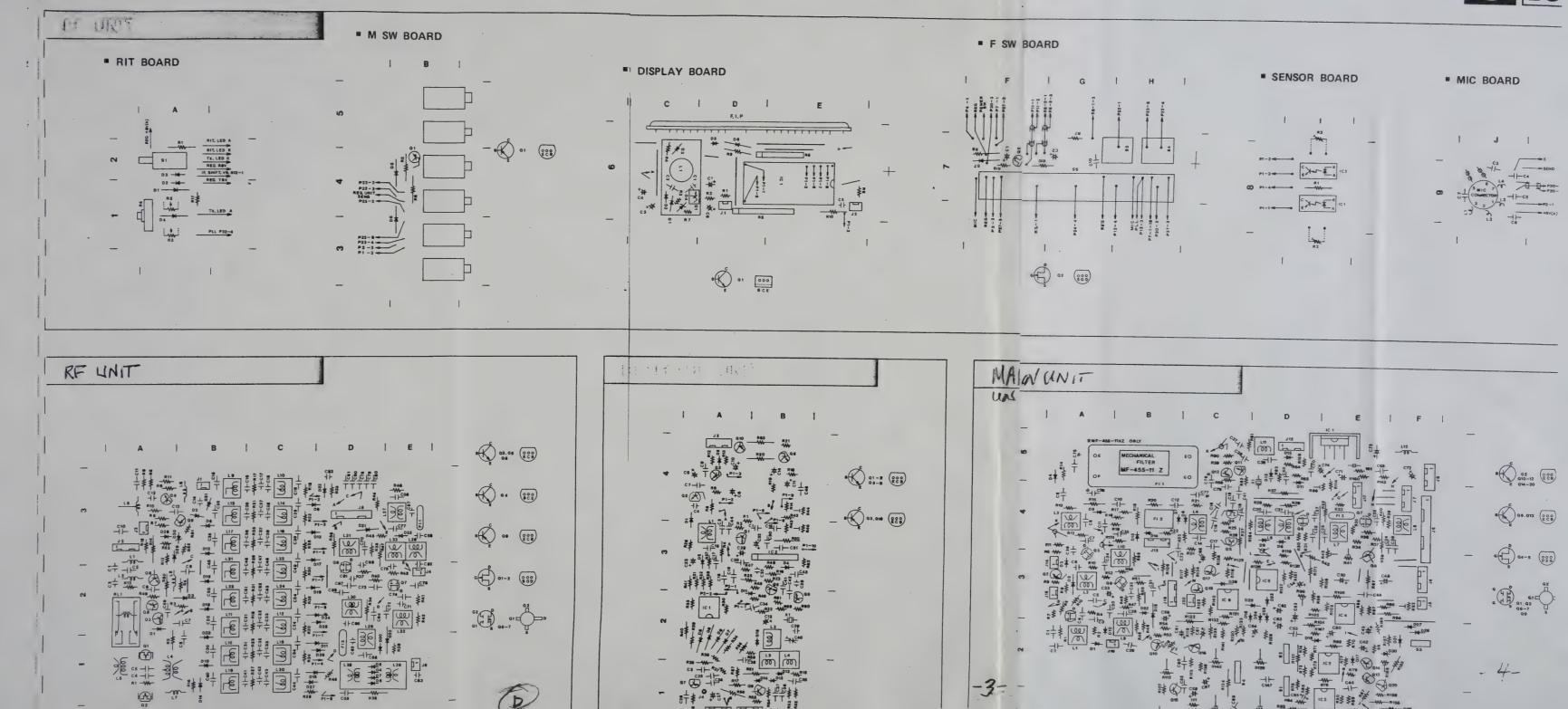




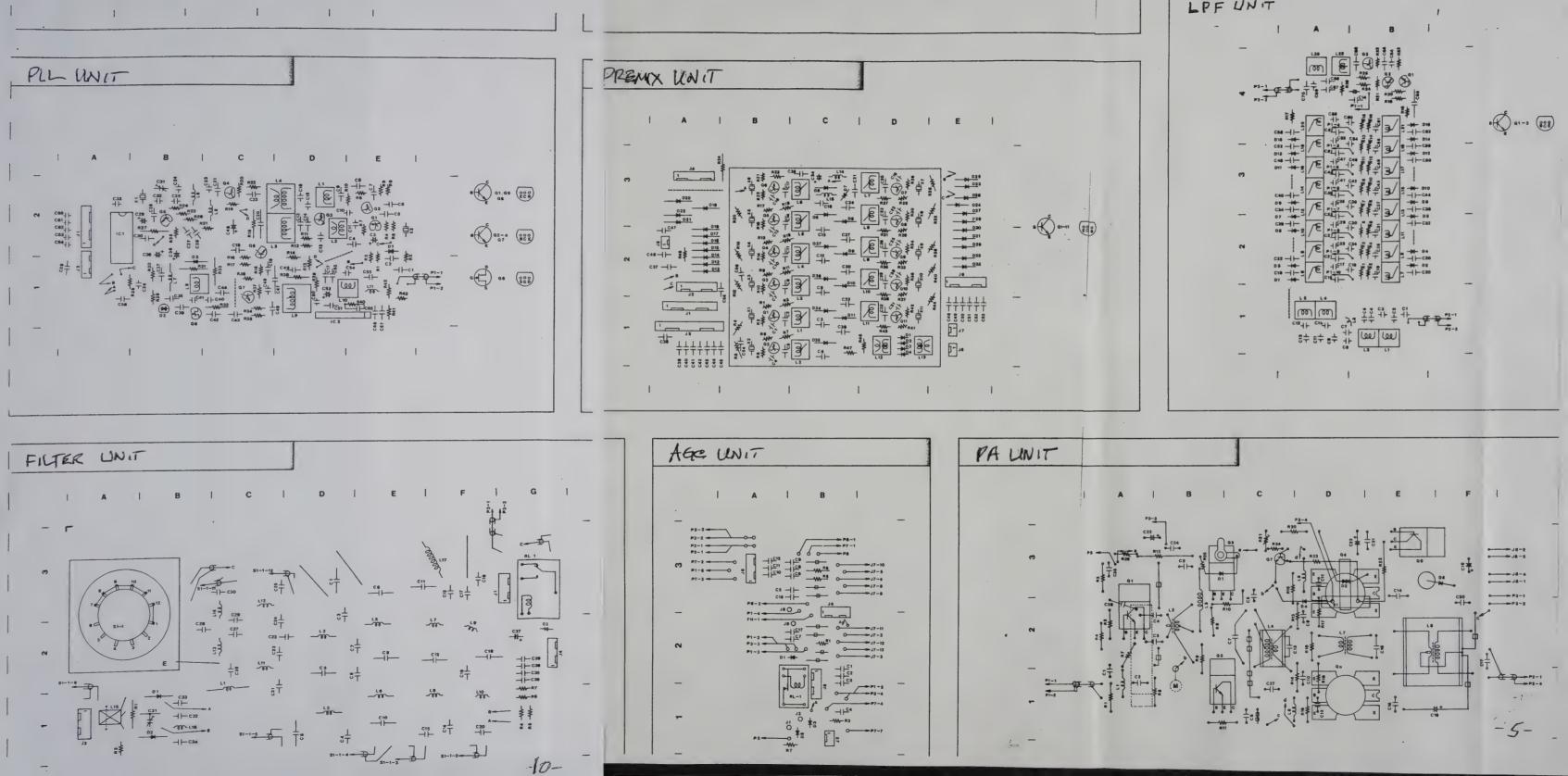
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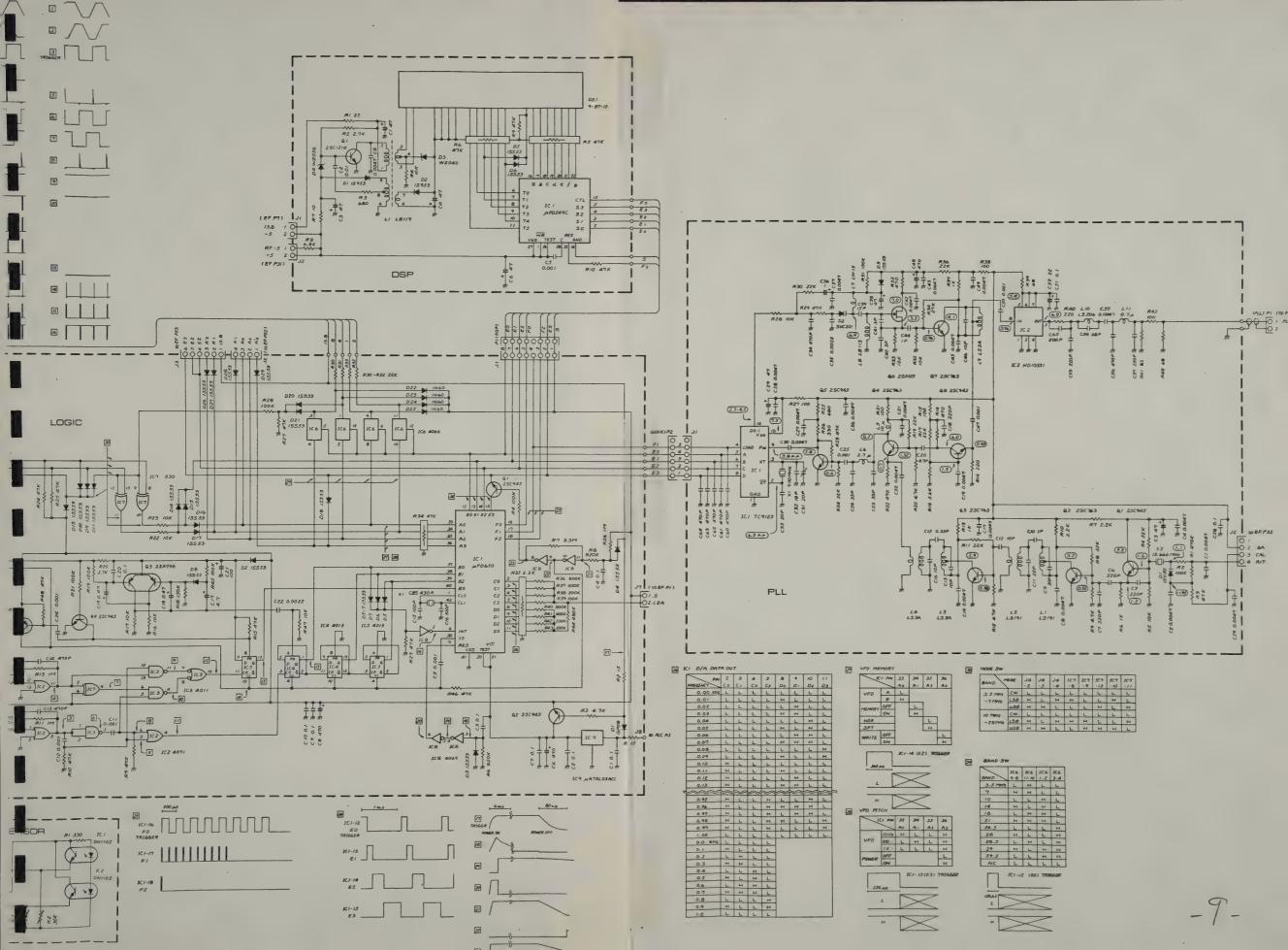
BOARD LAYOUT

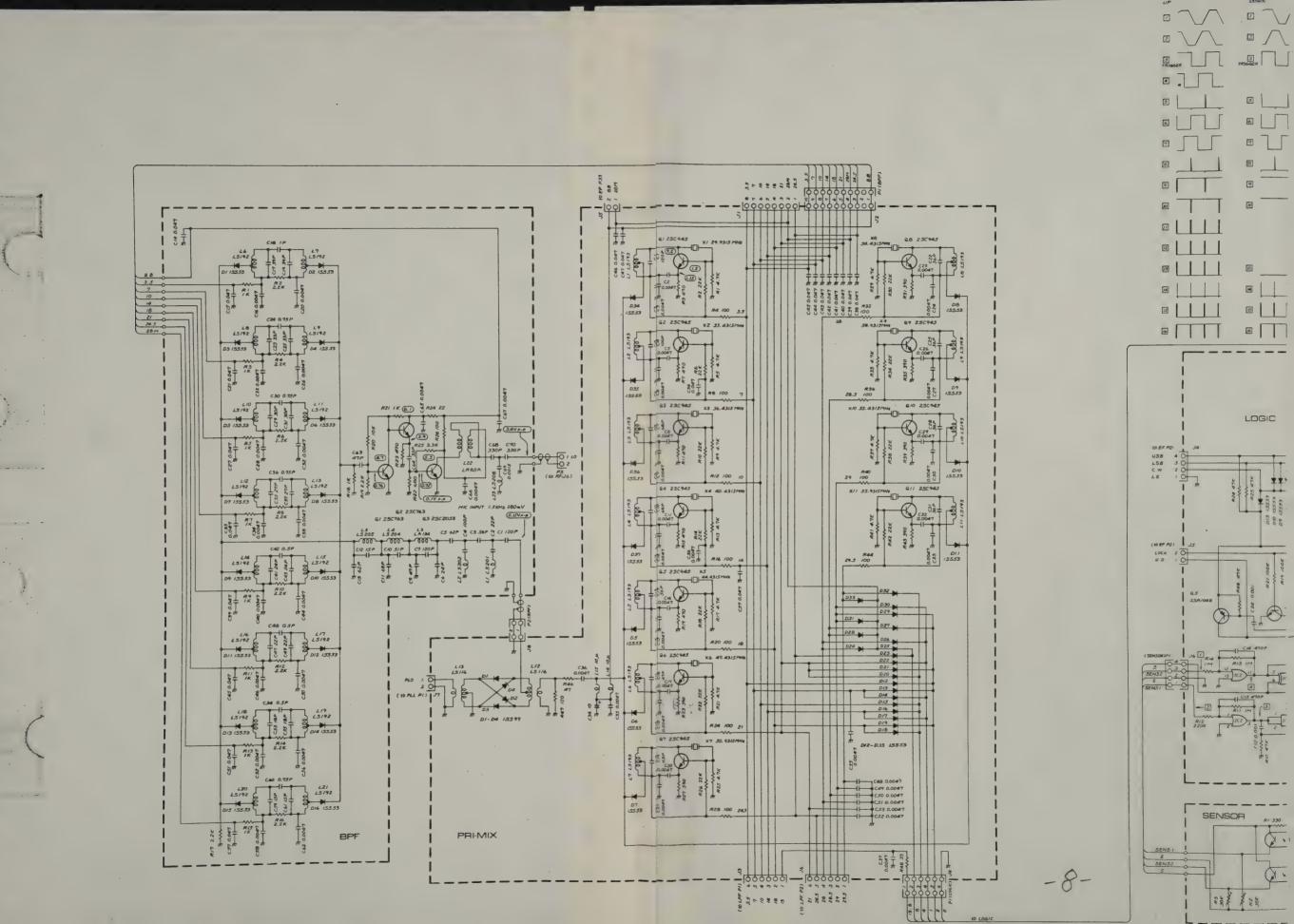


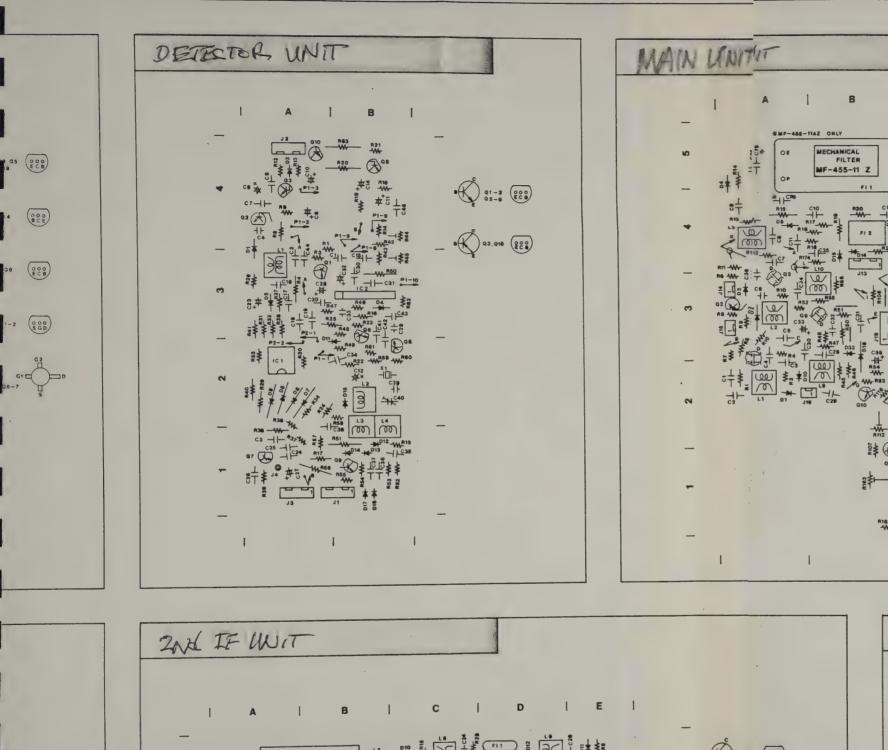


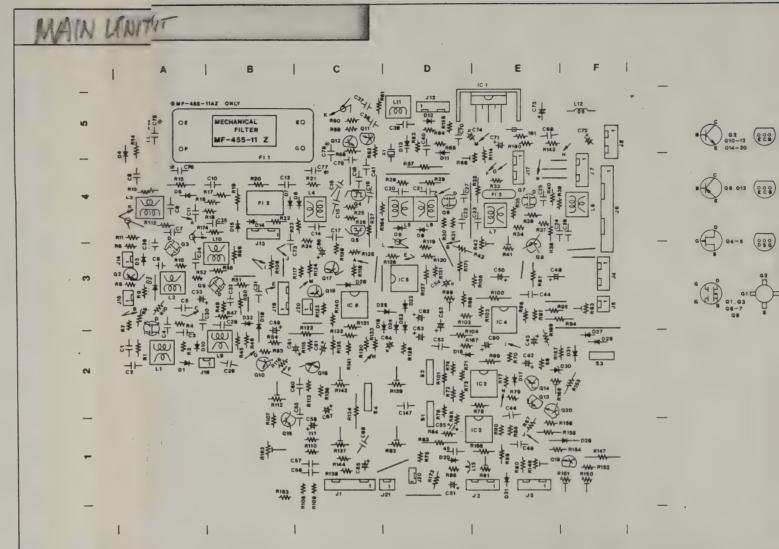
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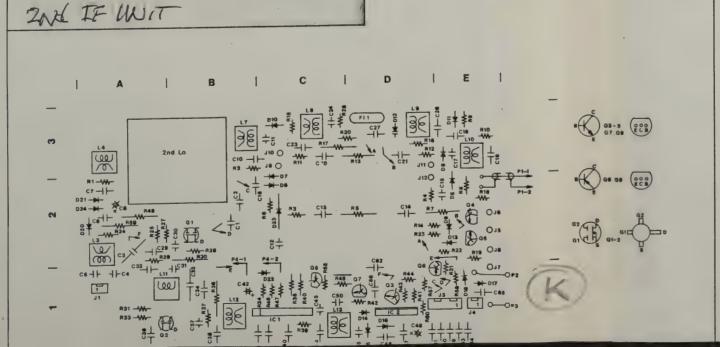


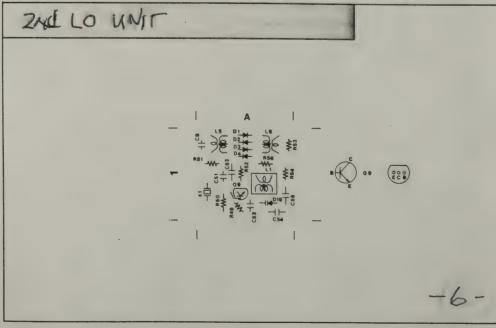


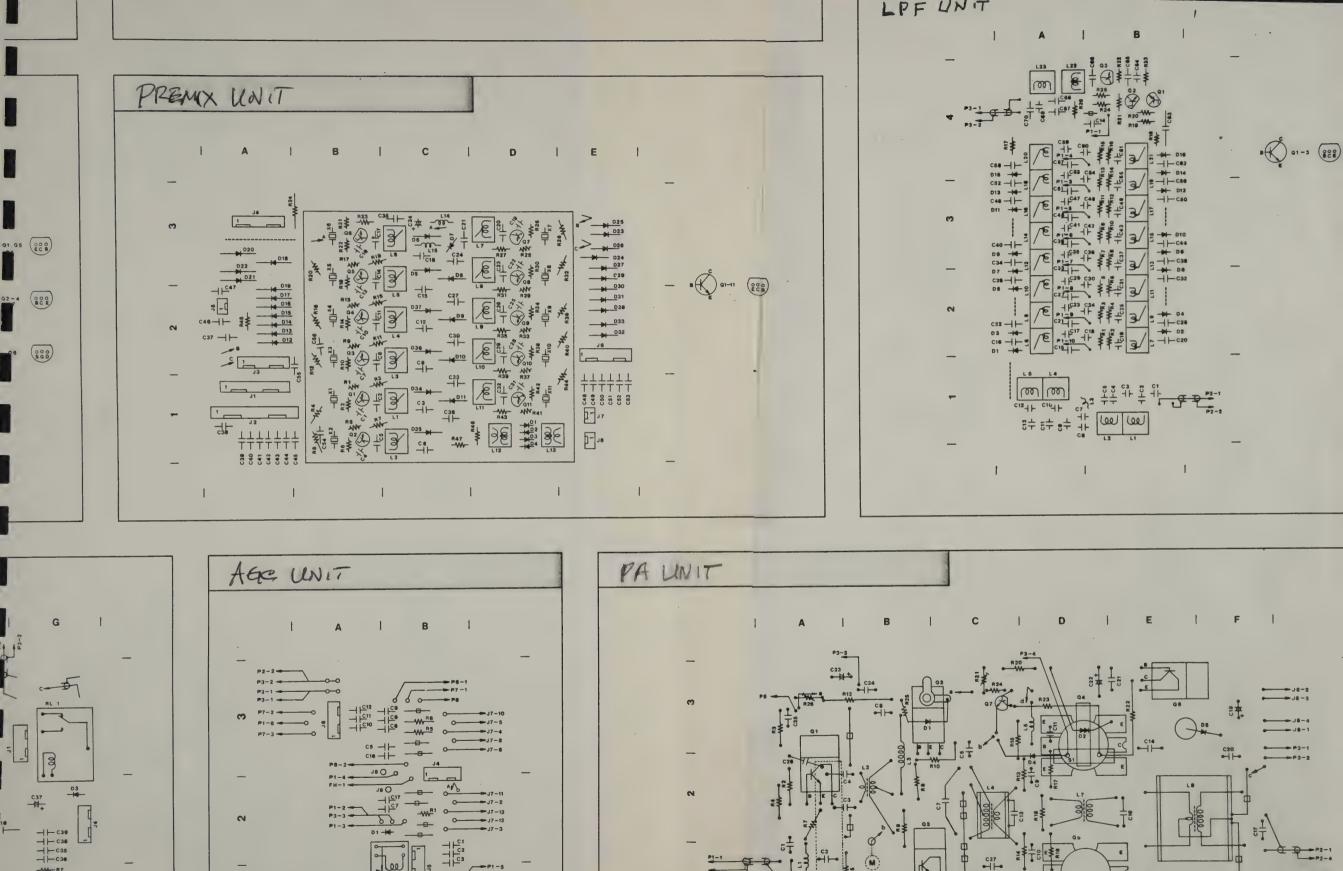




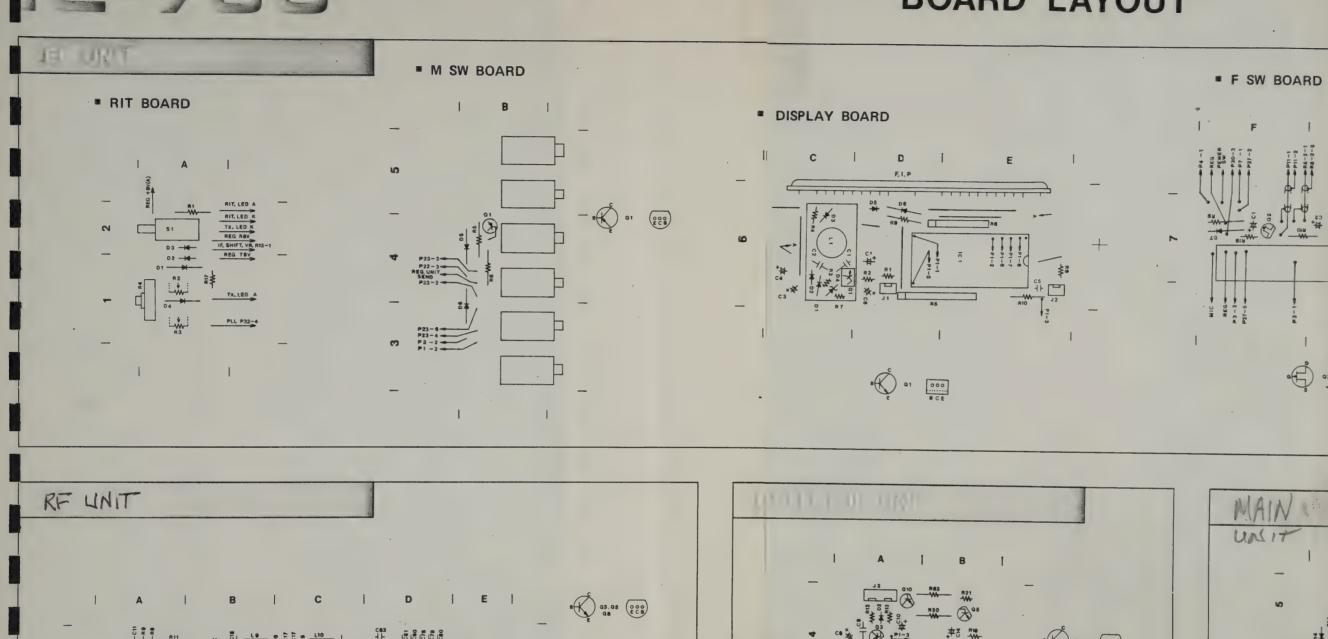


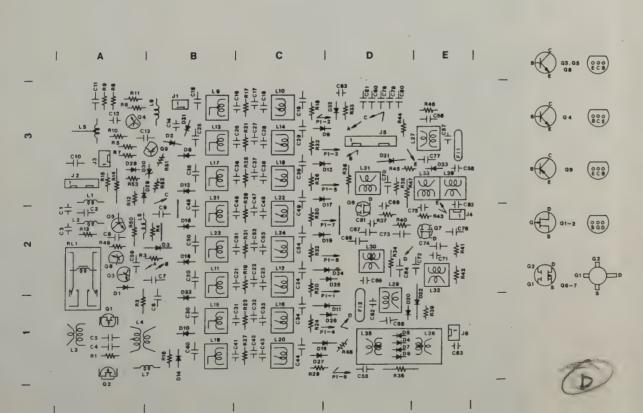


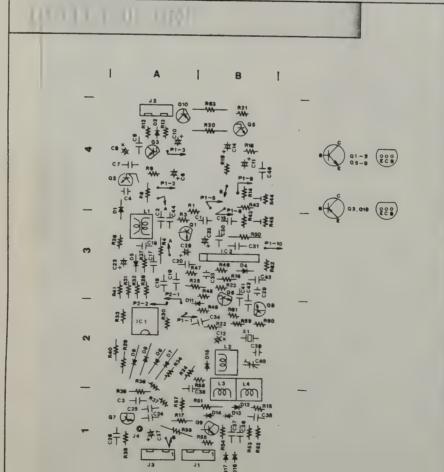


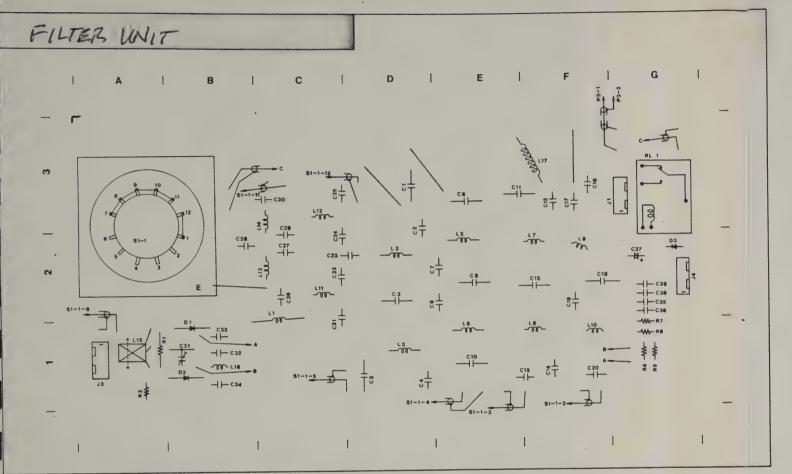


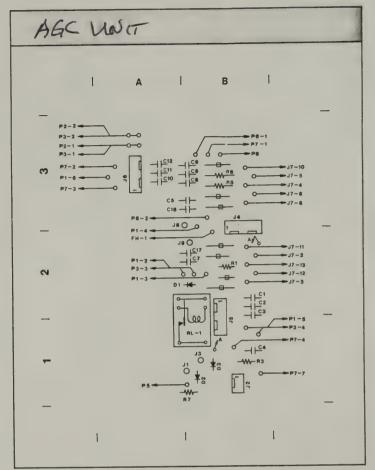
BOARD LAYOUT

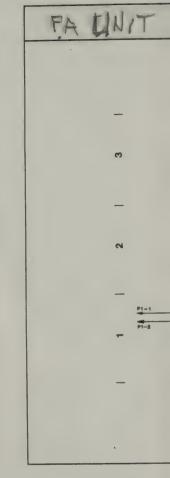








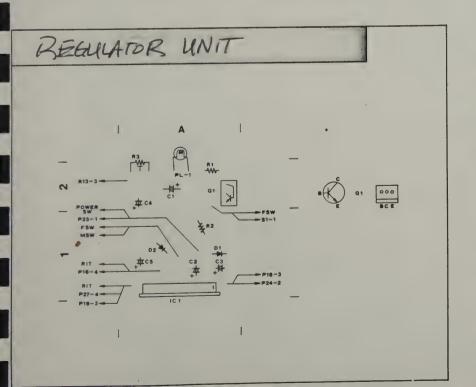


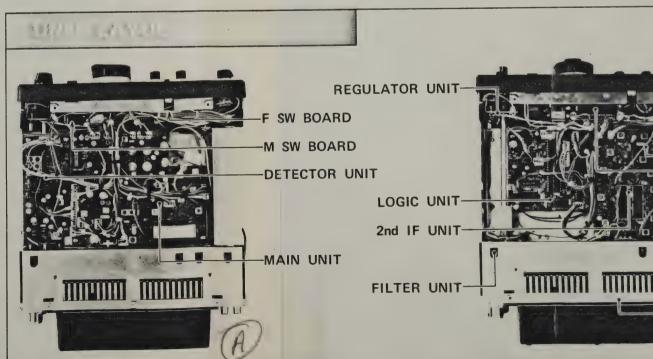


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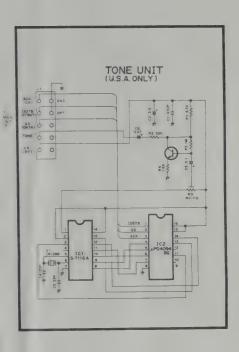
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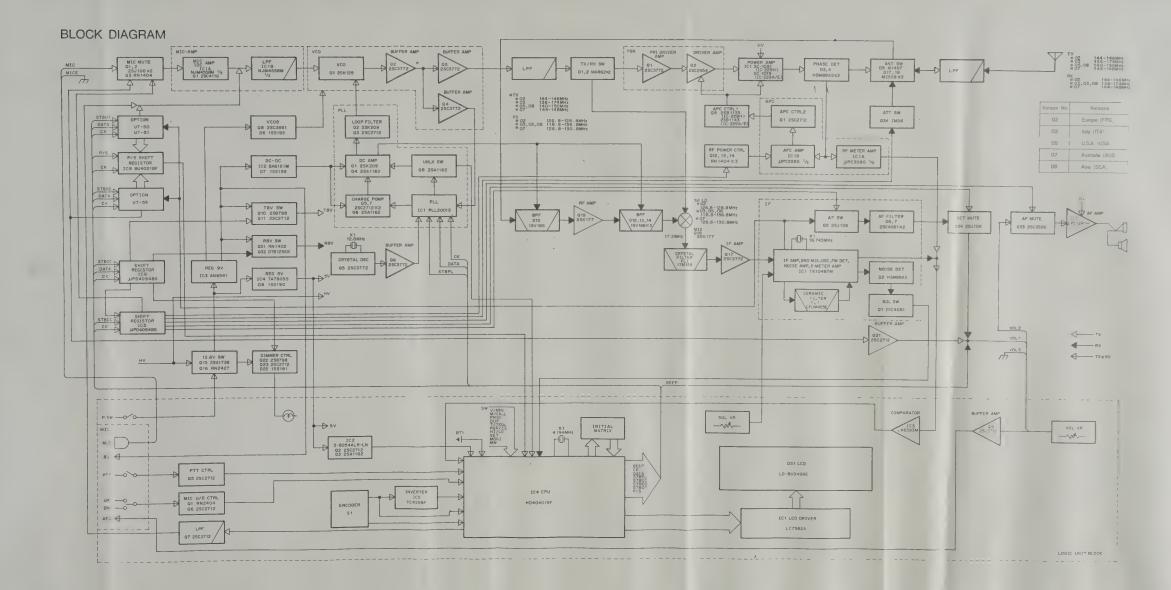


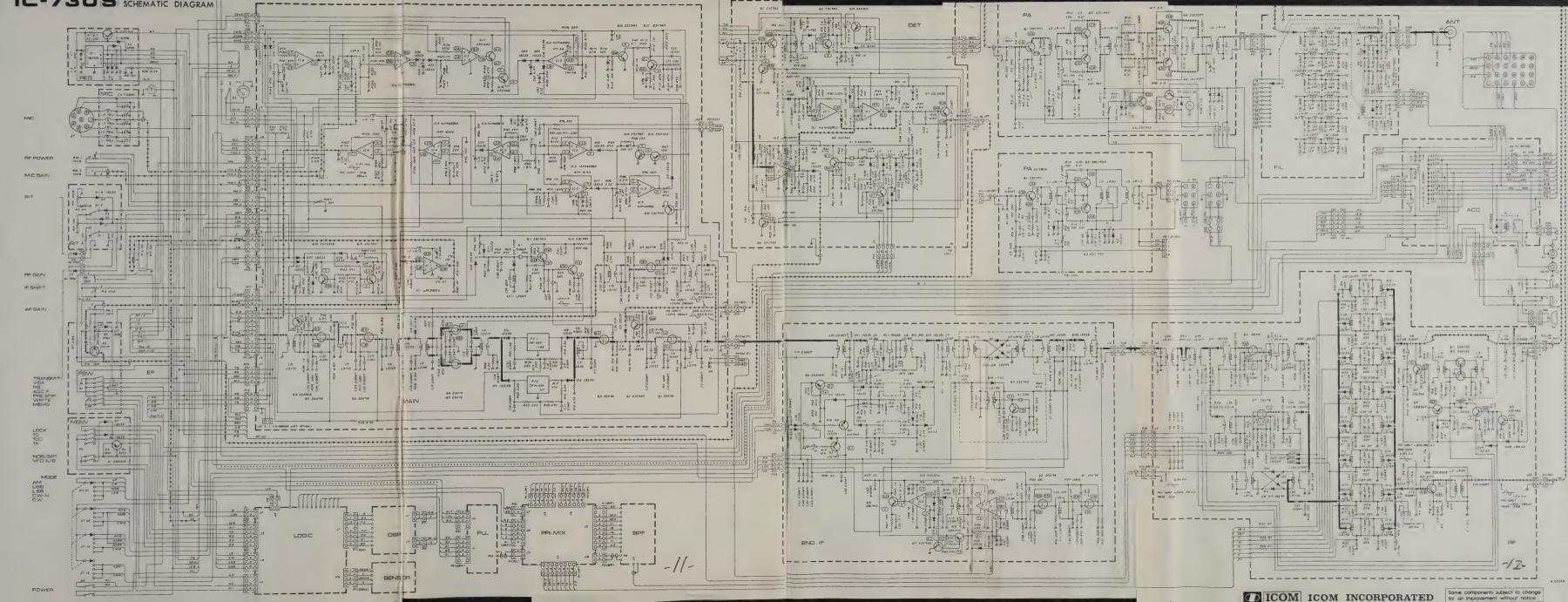


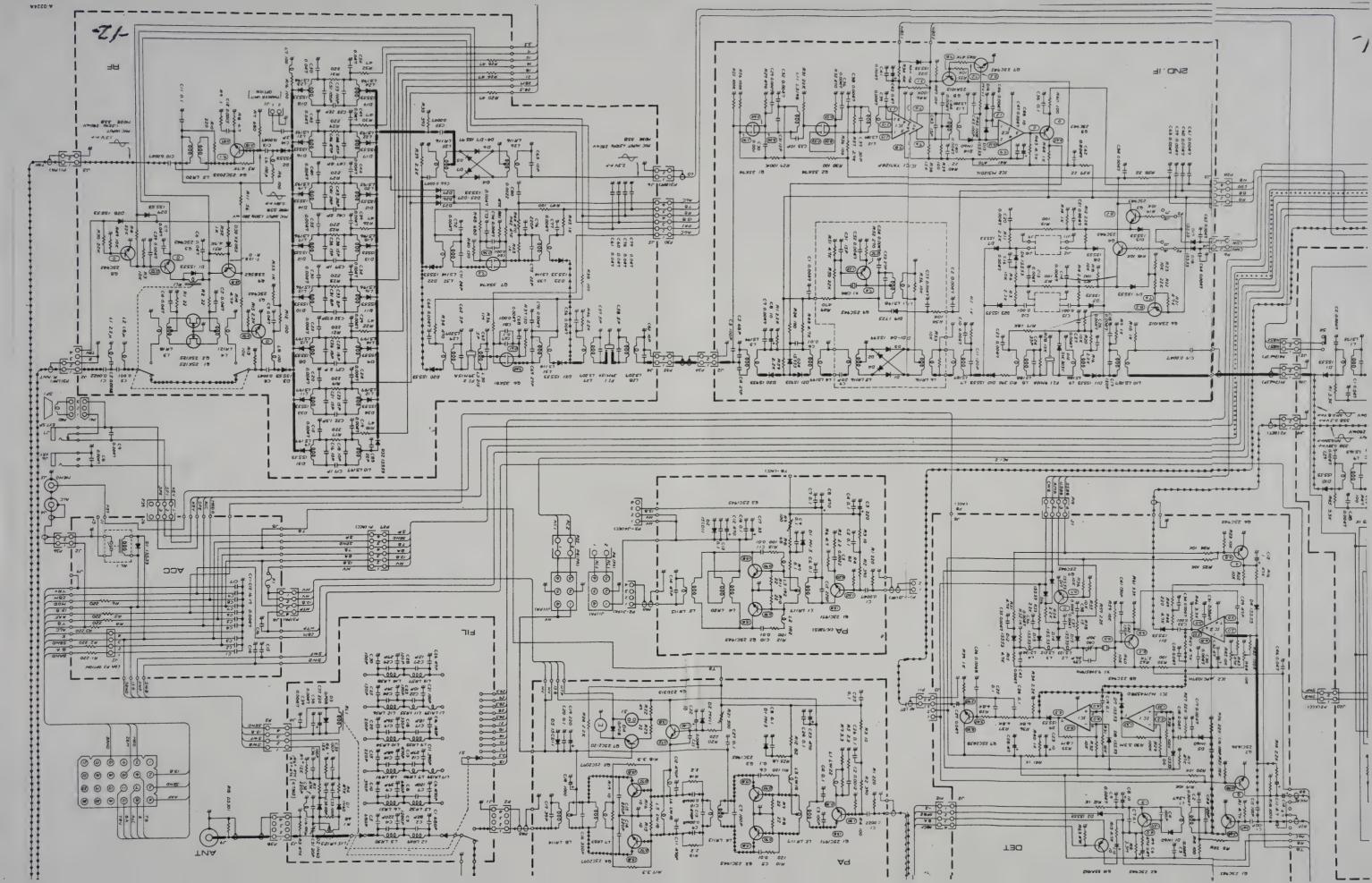
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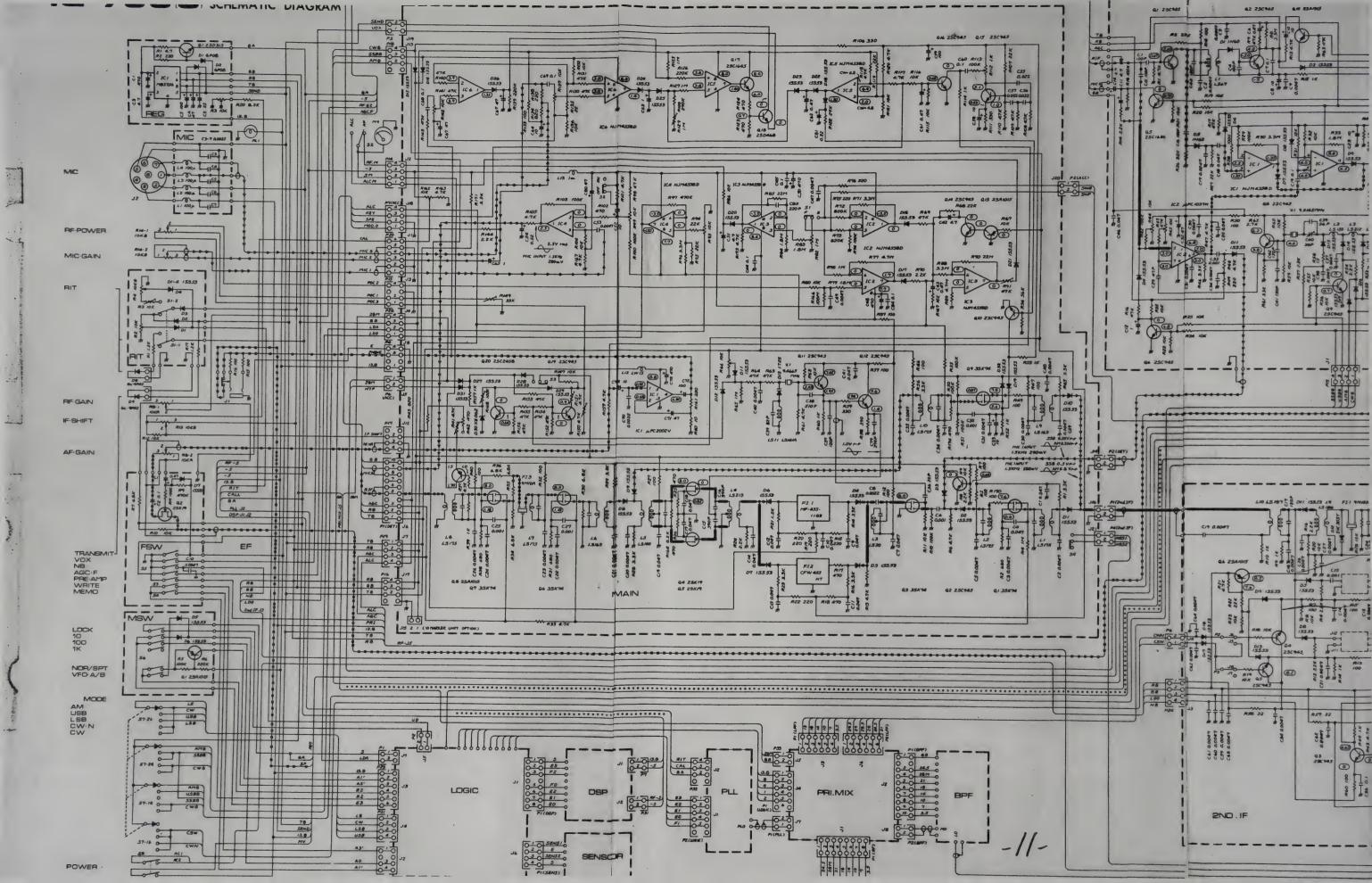
A \$1075 2EX Princips in Japan Princips in Japan Copyright 1990 by Icom Inc.

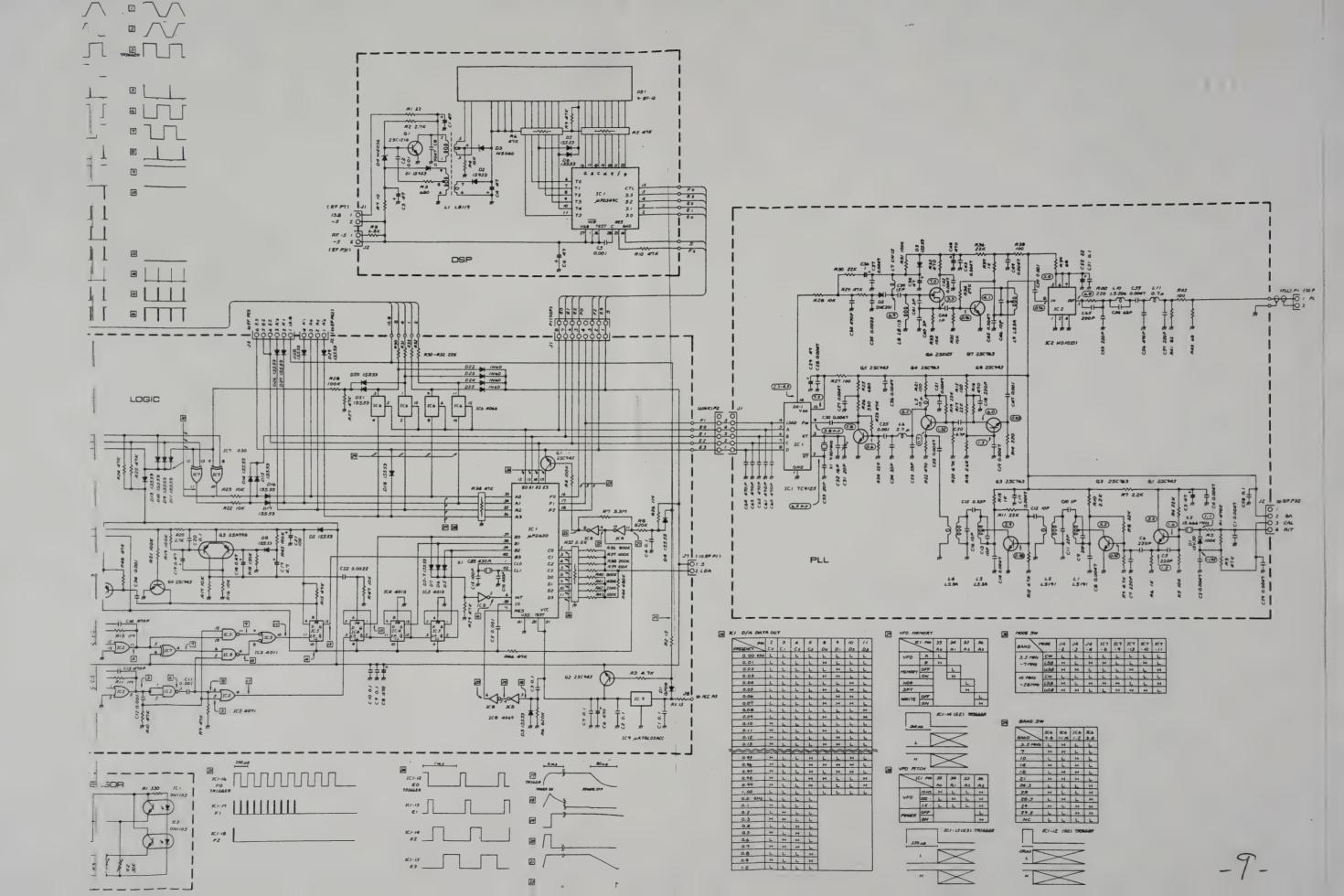


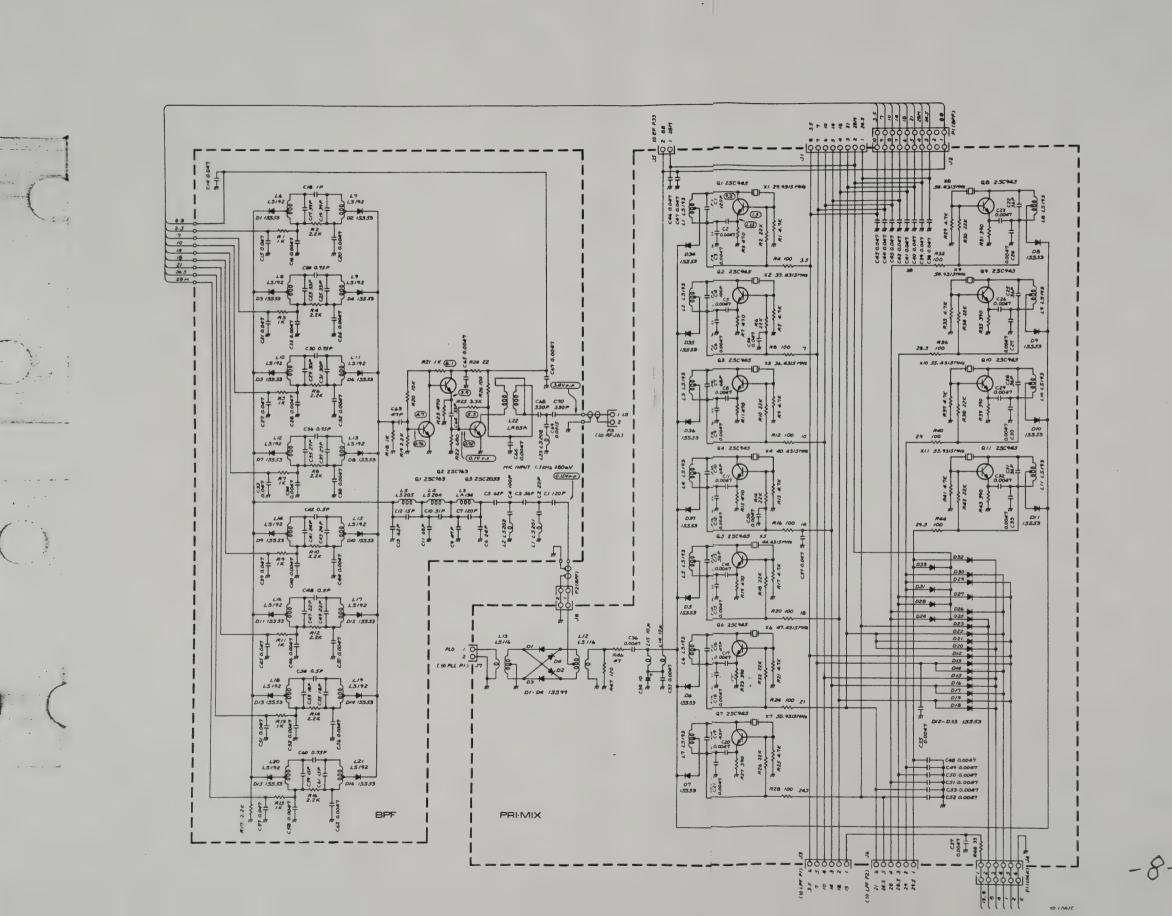




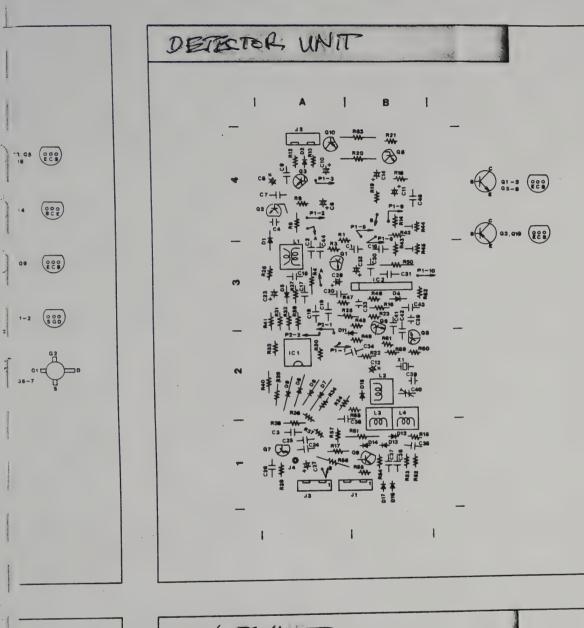


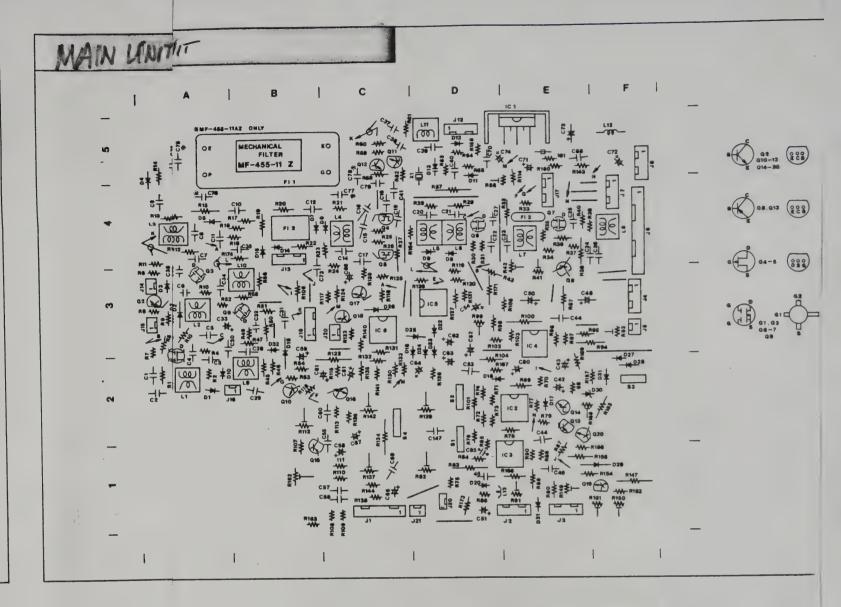


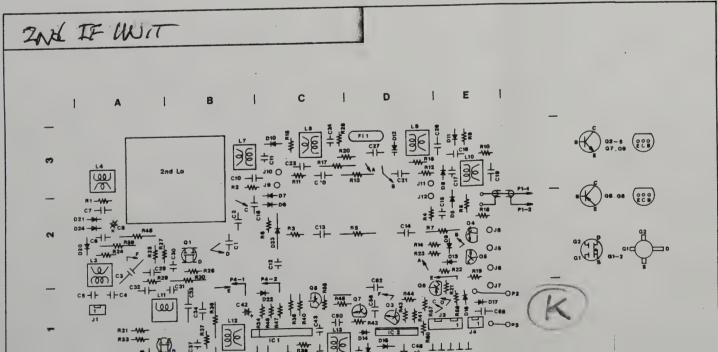


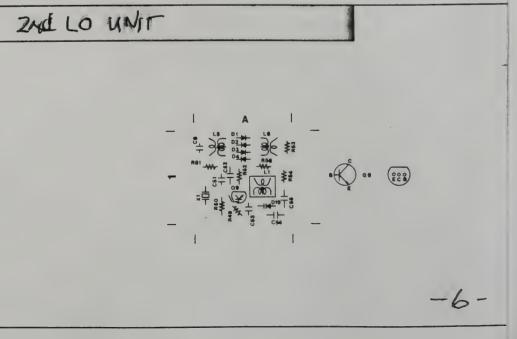


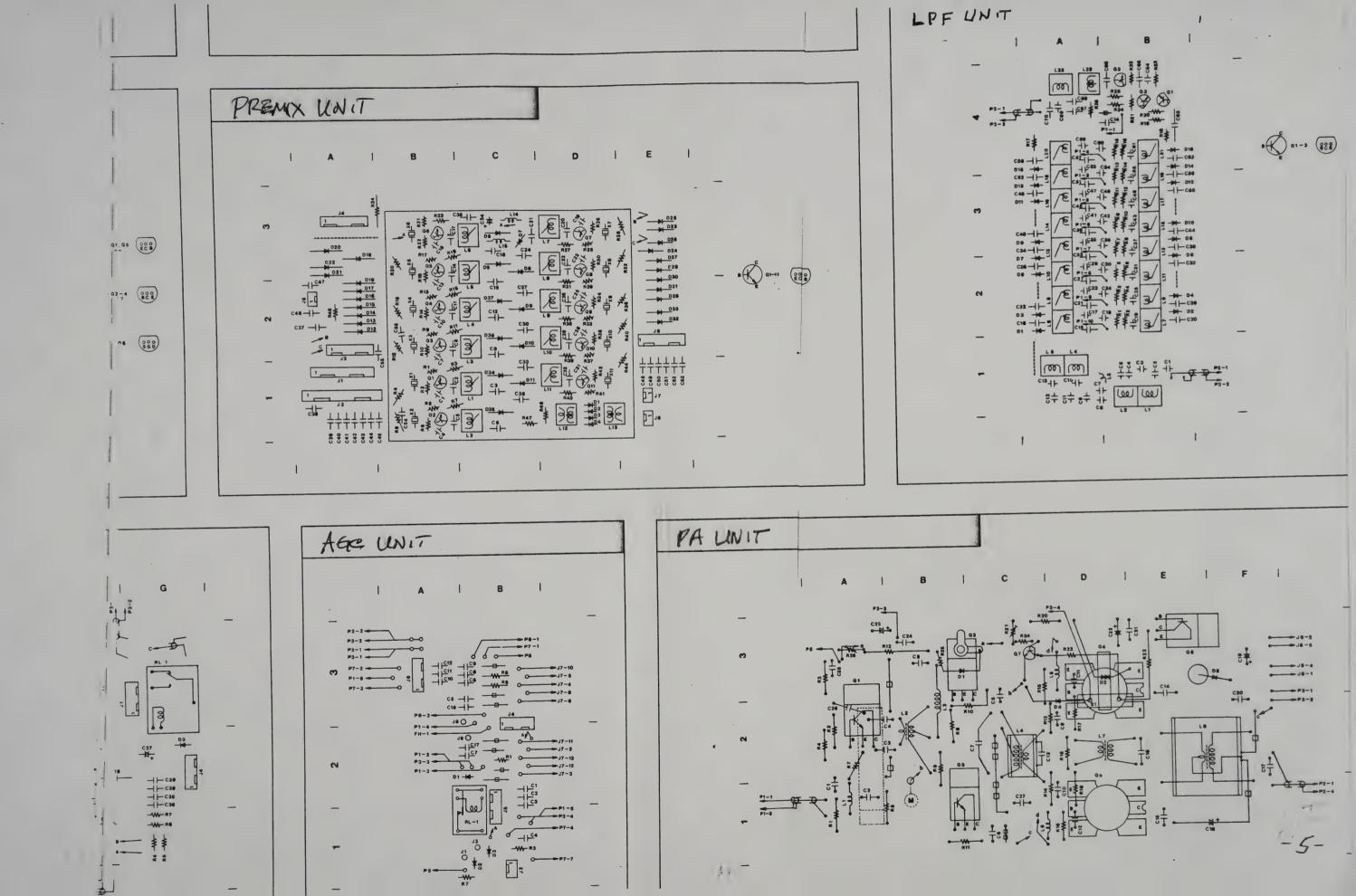
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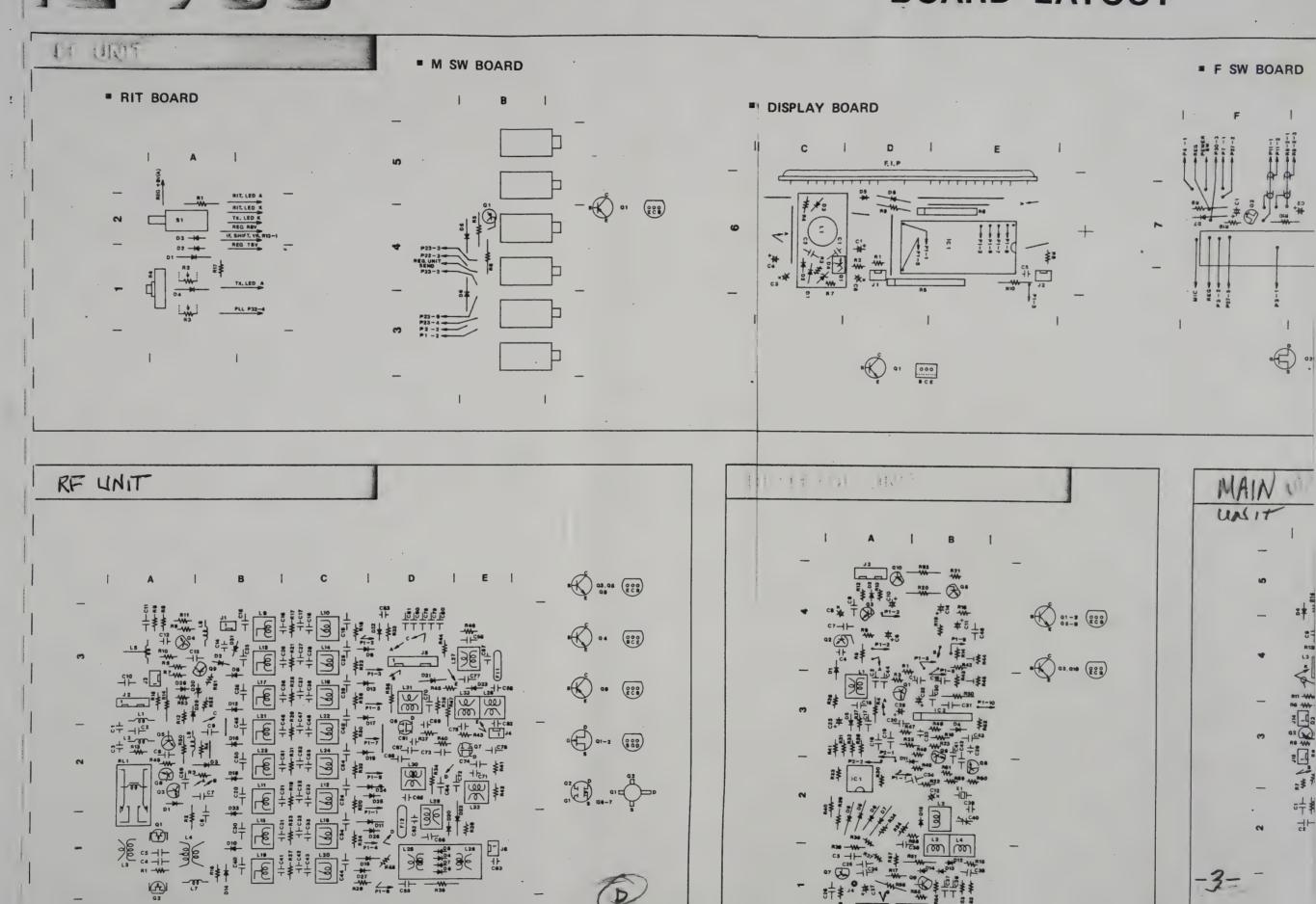


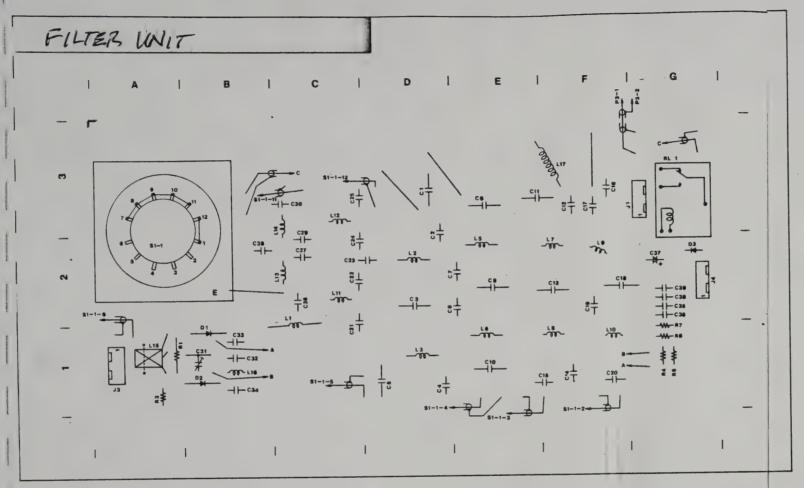


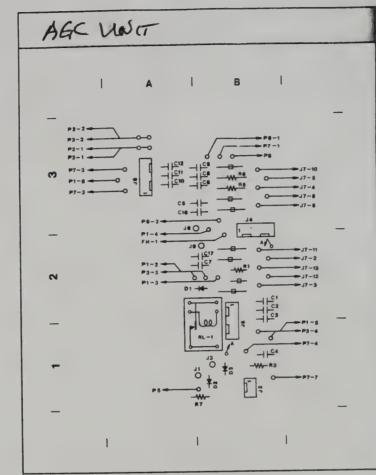


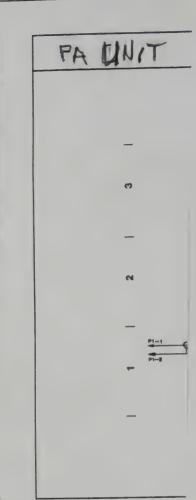
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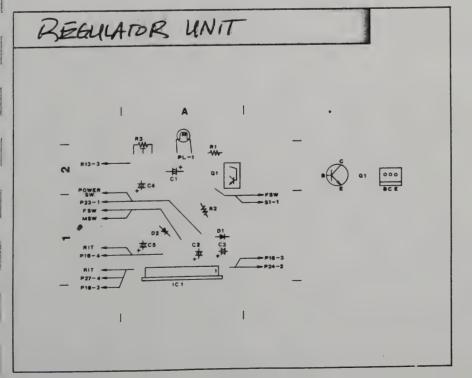
BOARD LAYOUT

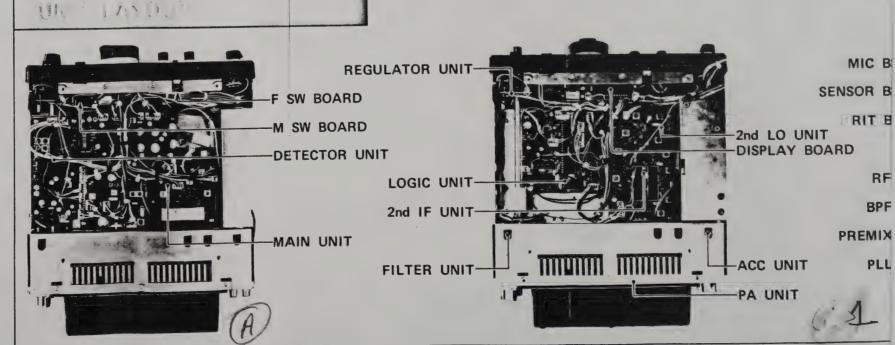


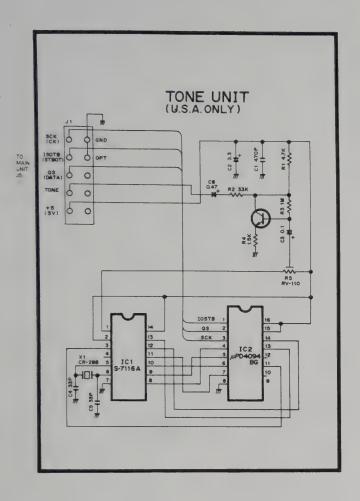


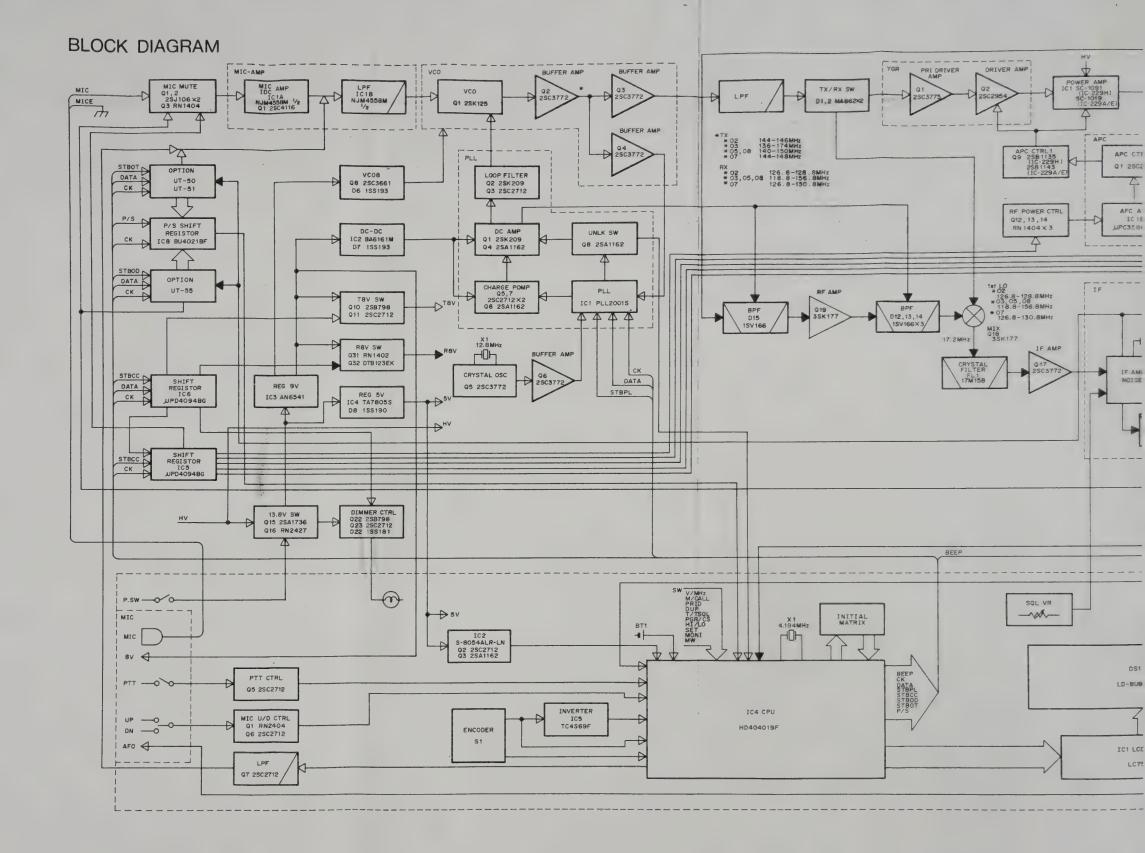


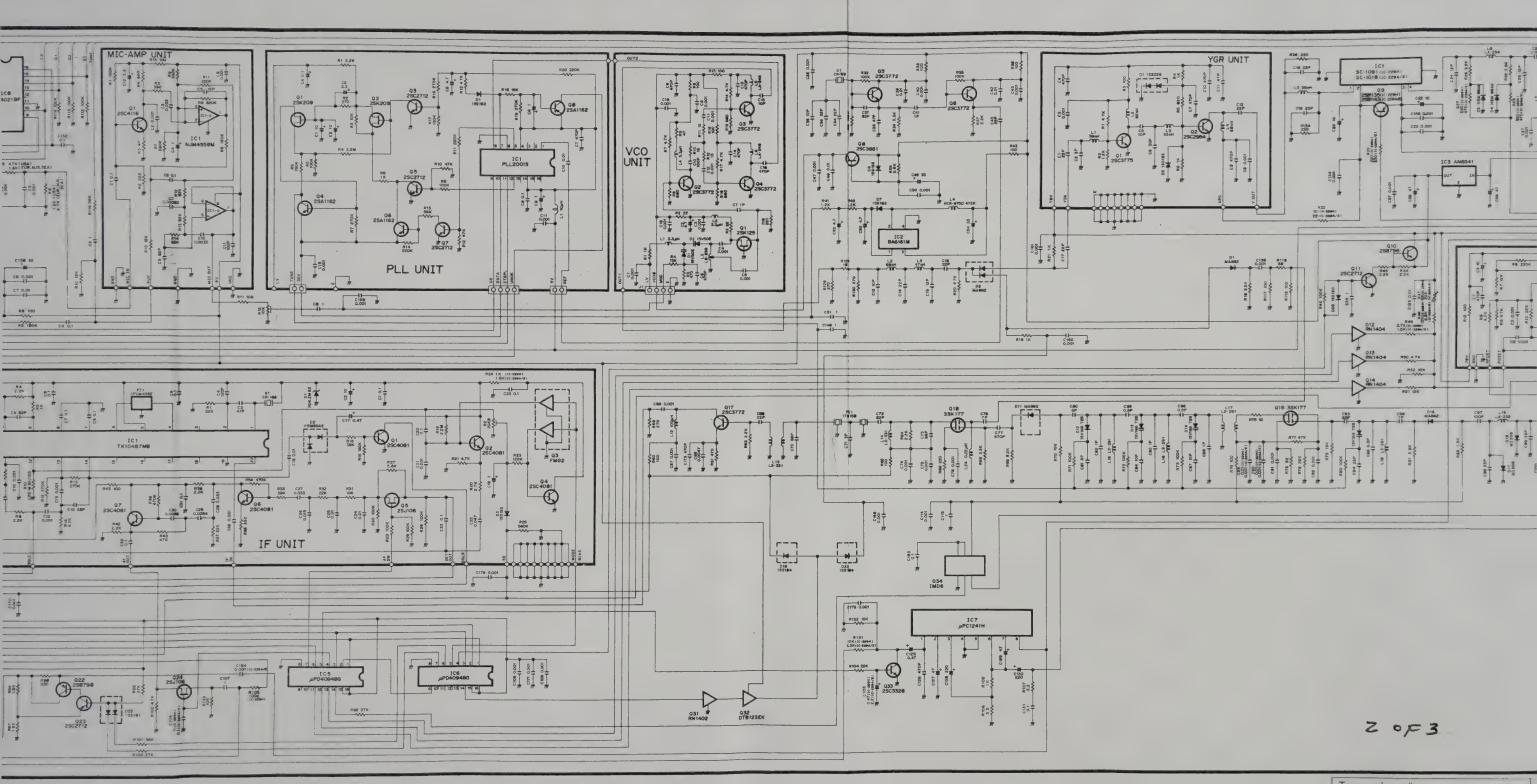




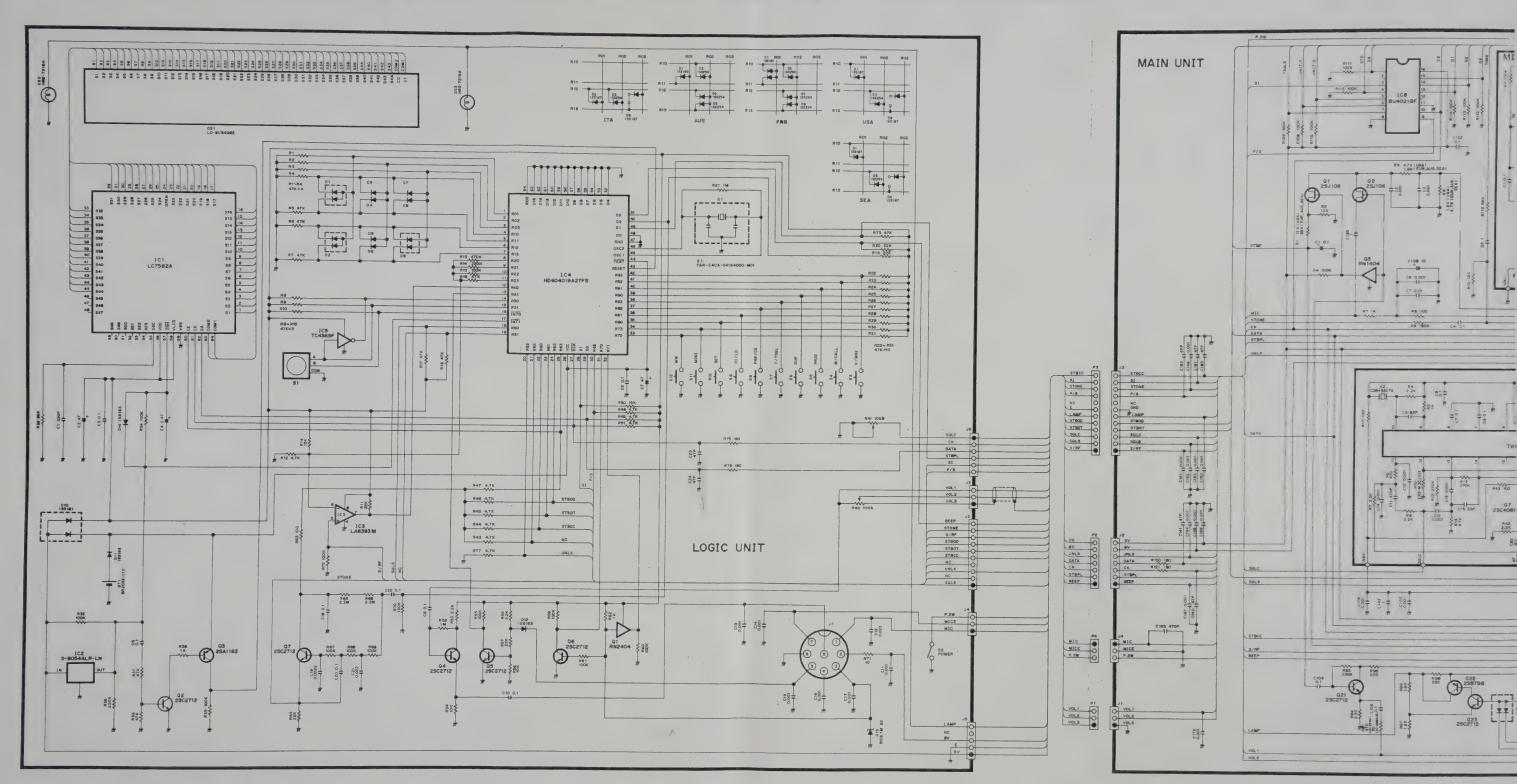




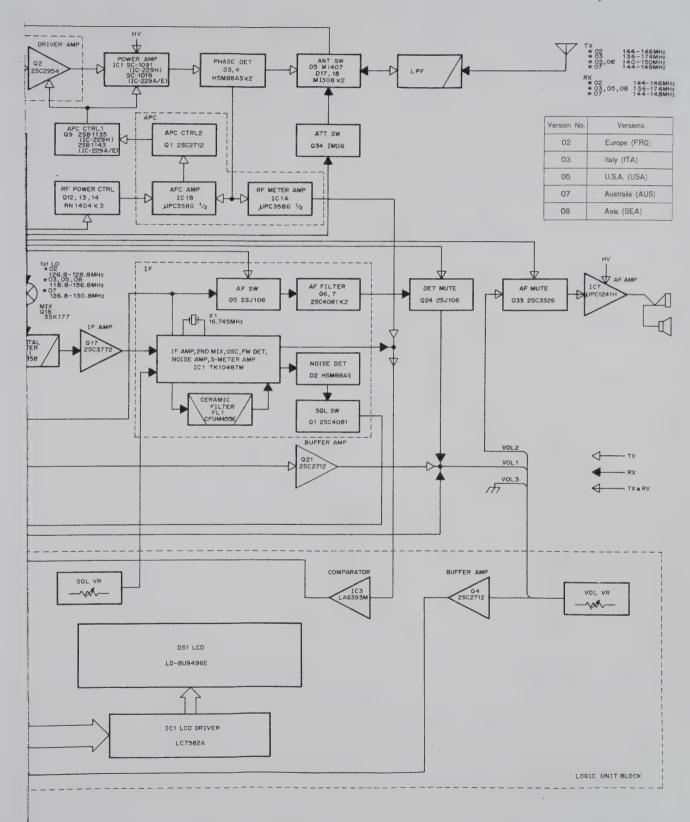




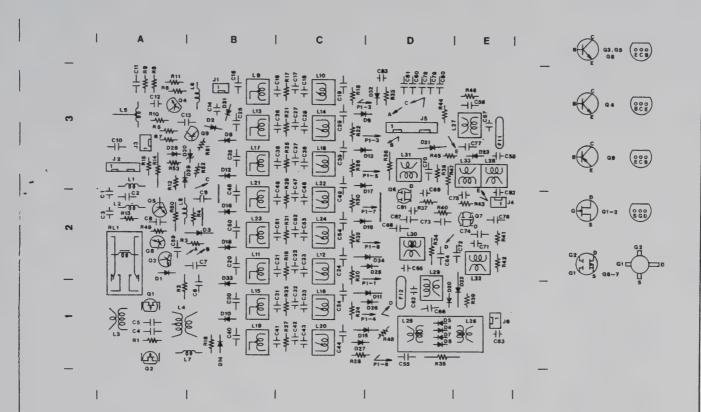
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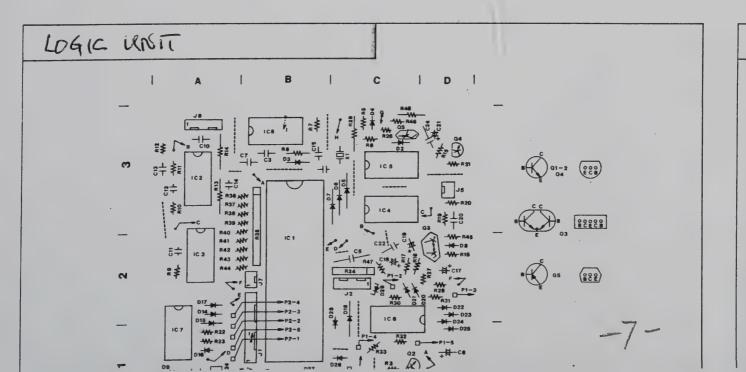


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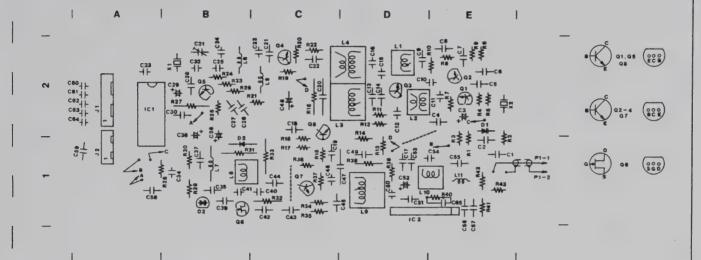


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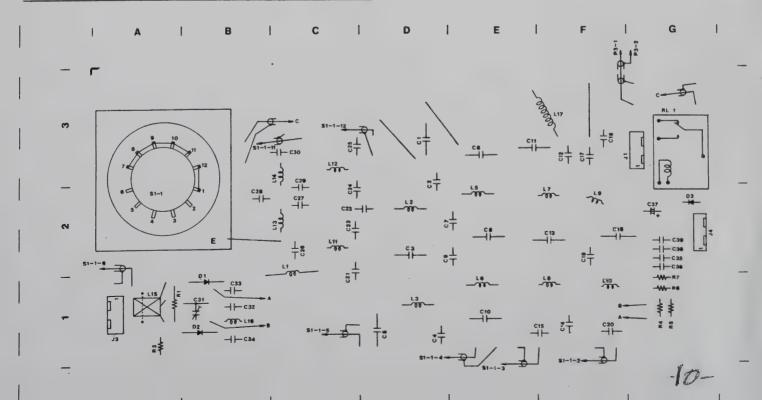




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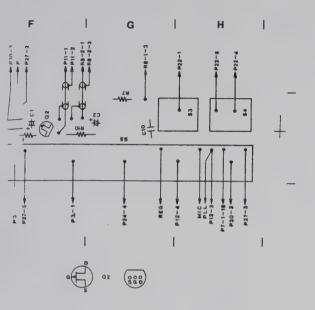


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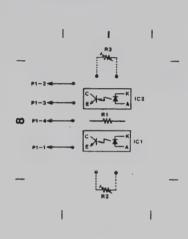




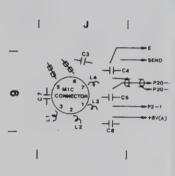
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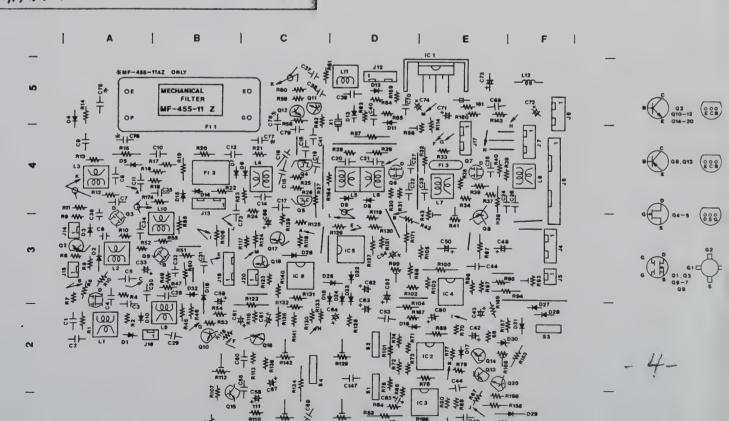
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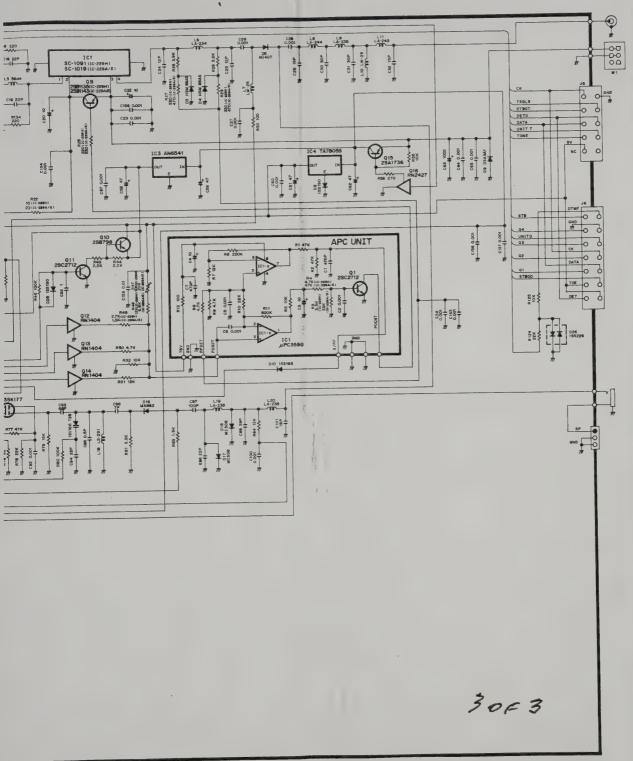


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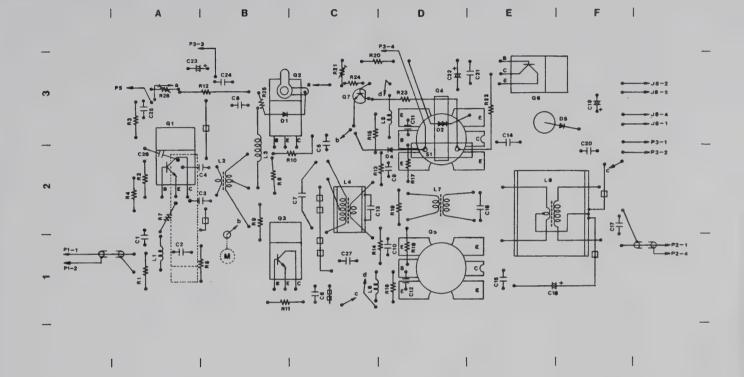


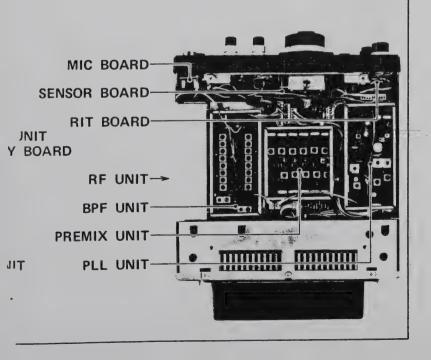
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PA UNIT





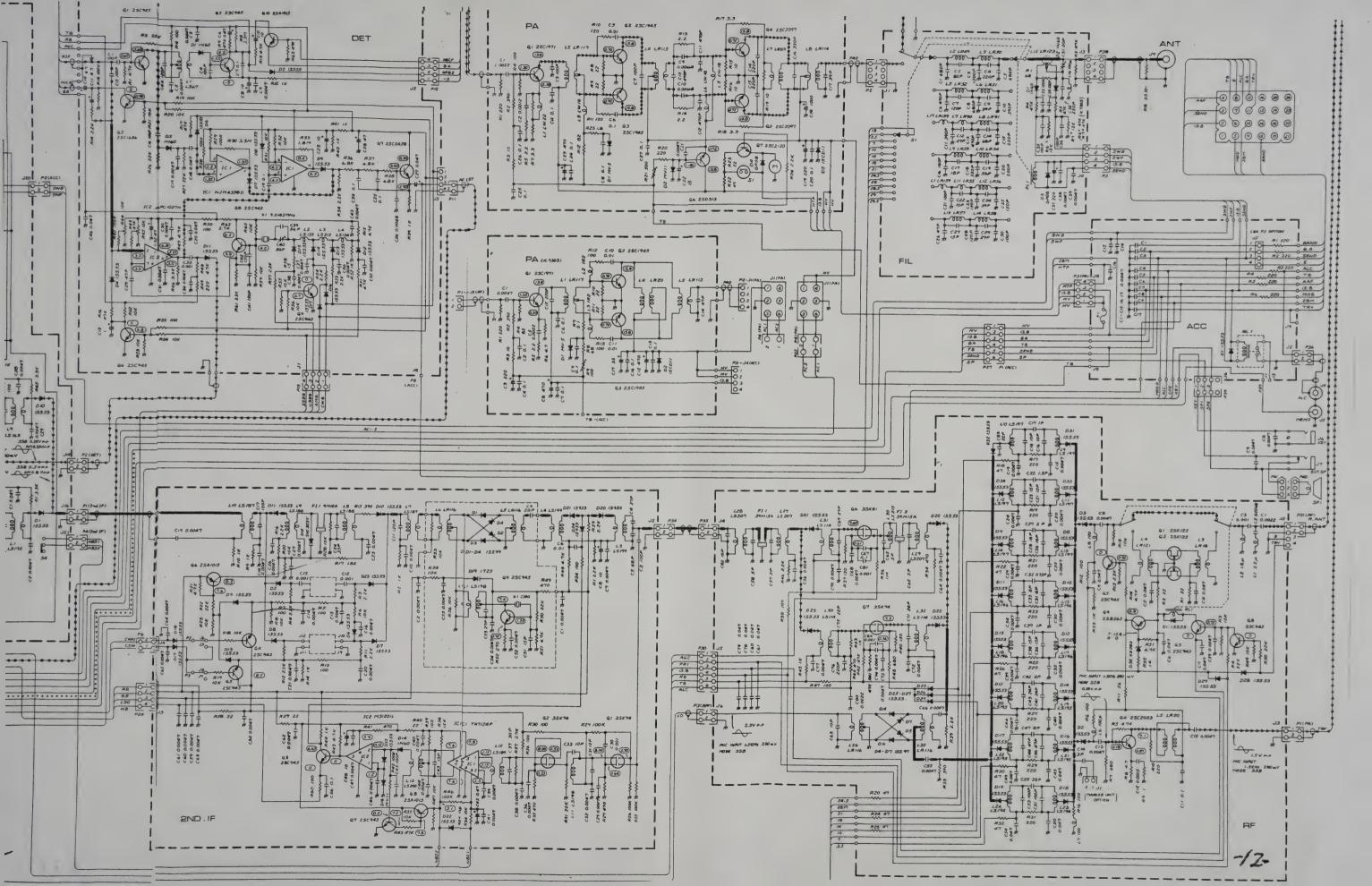


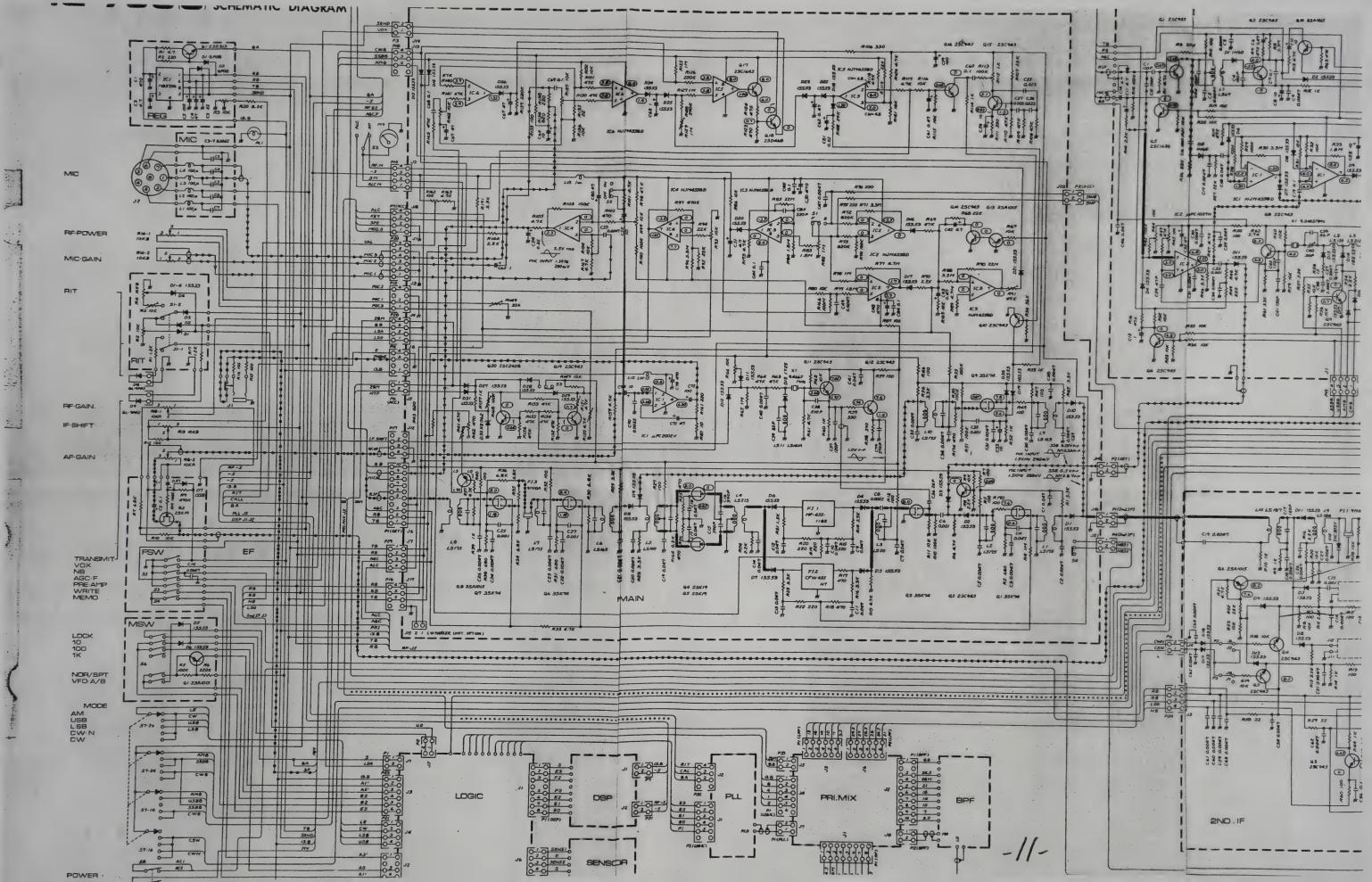
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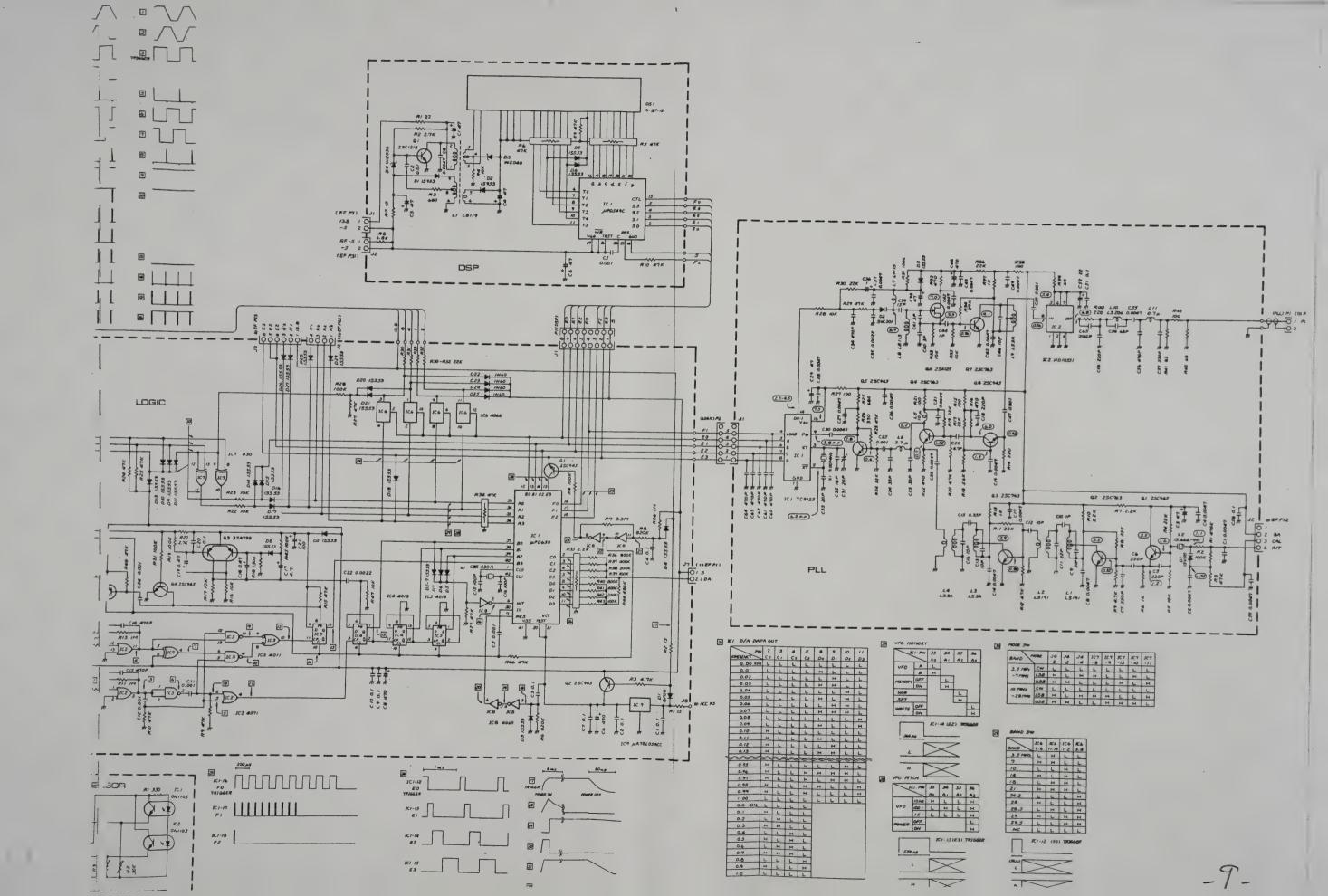
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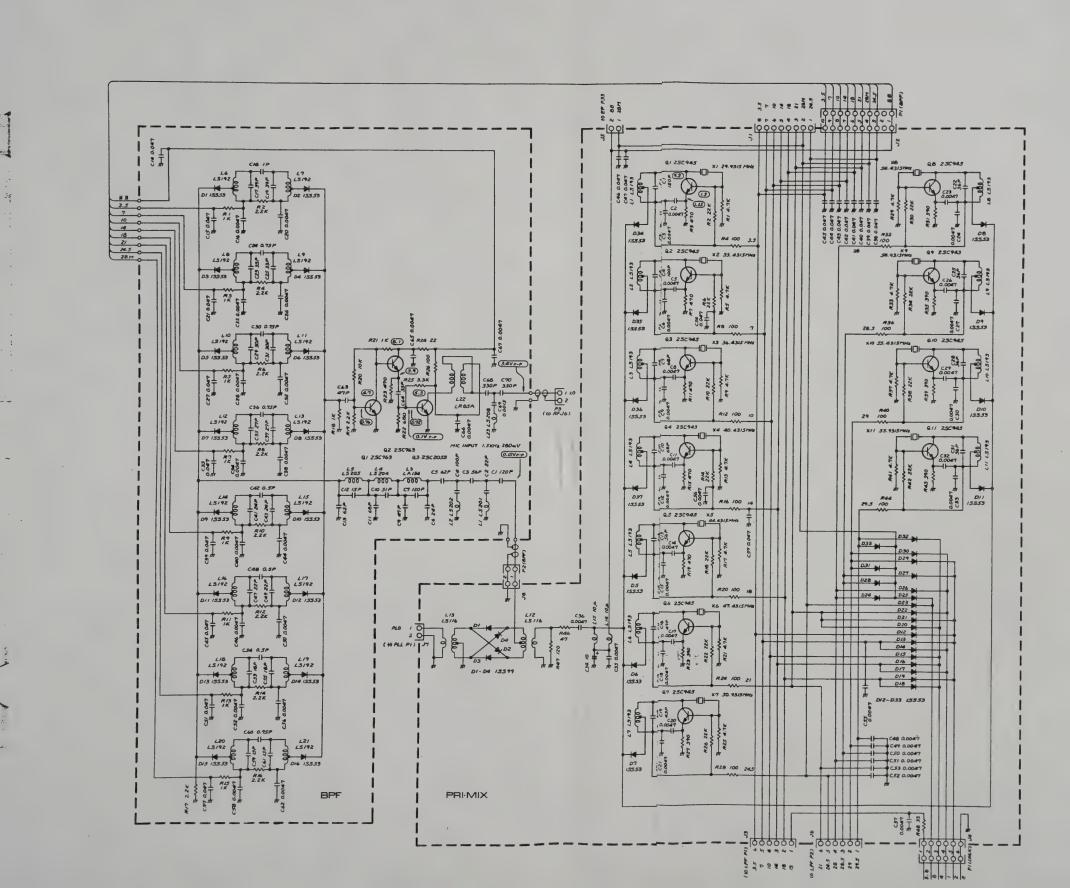
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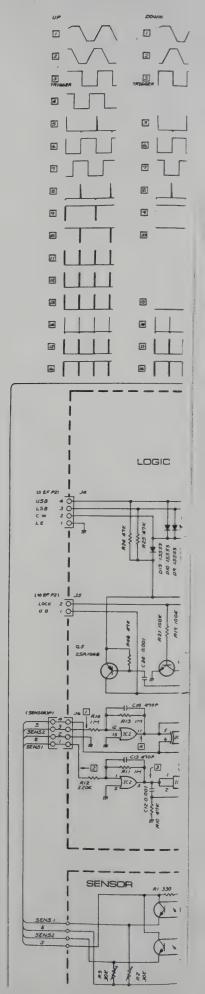
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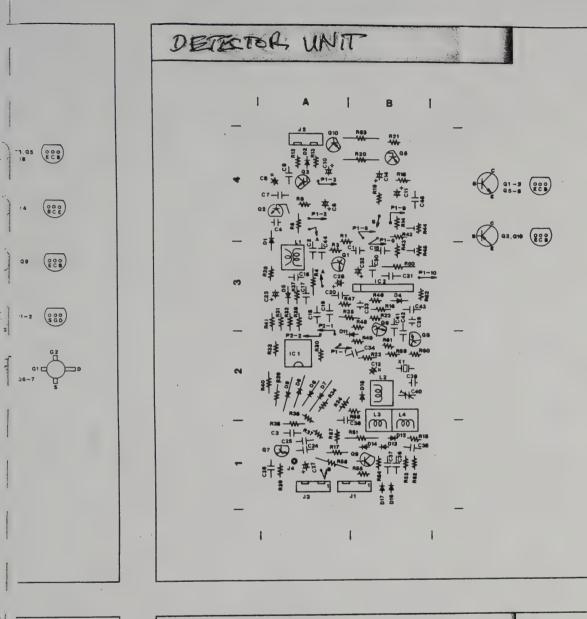


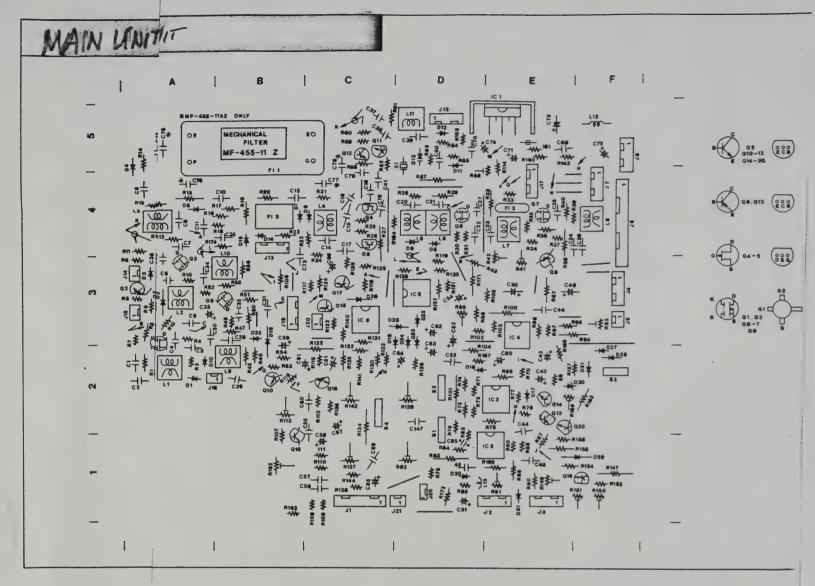


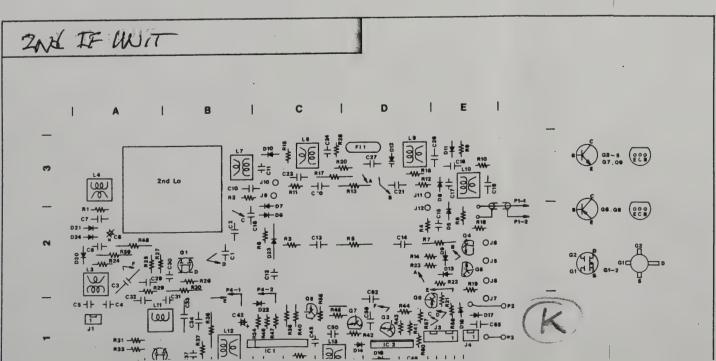


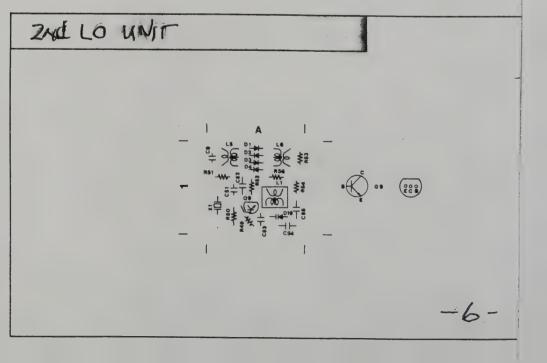


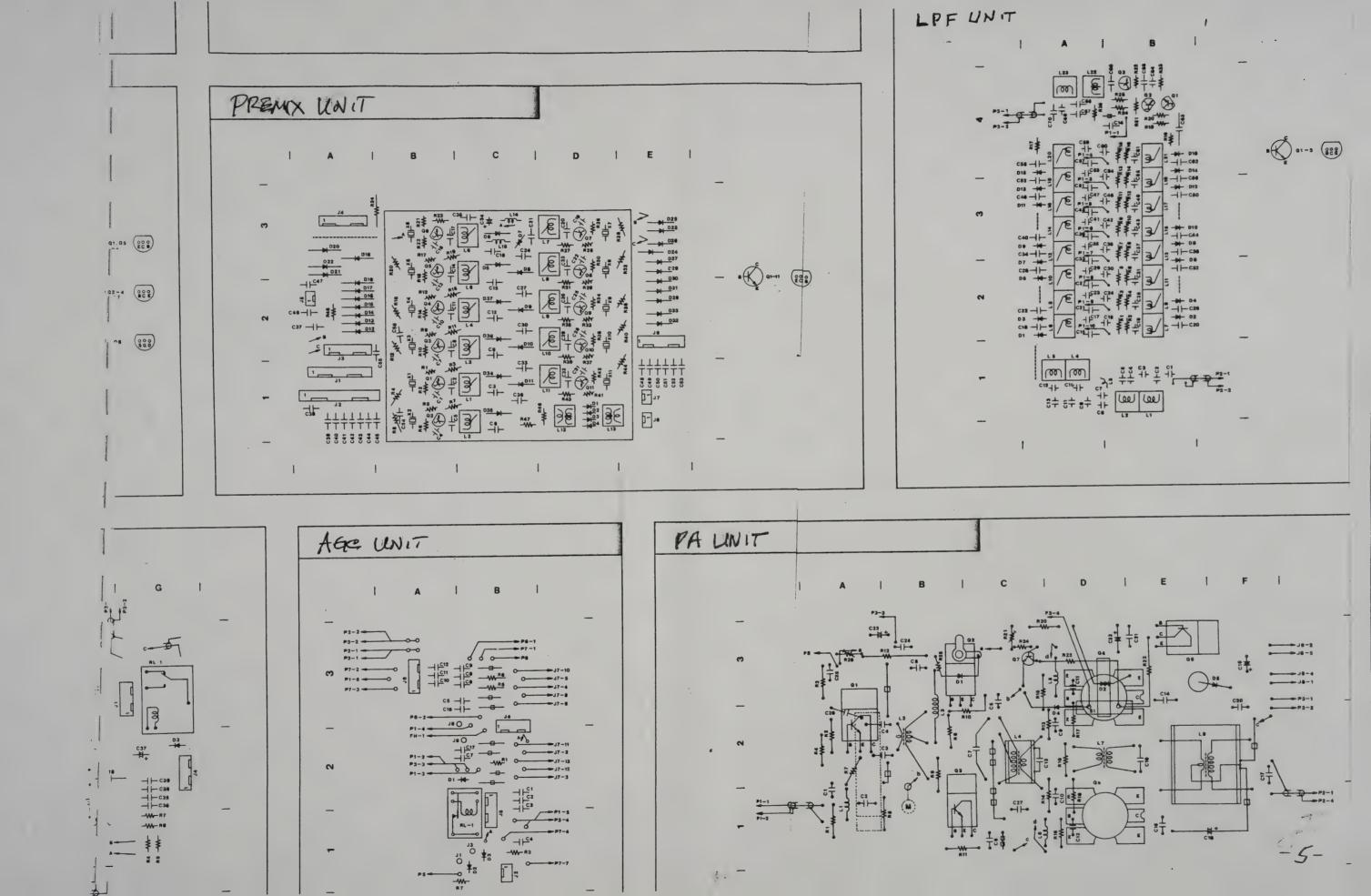
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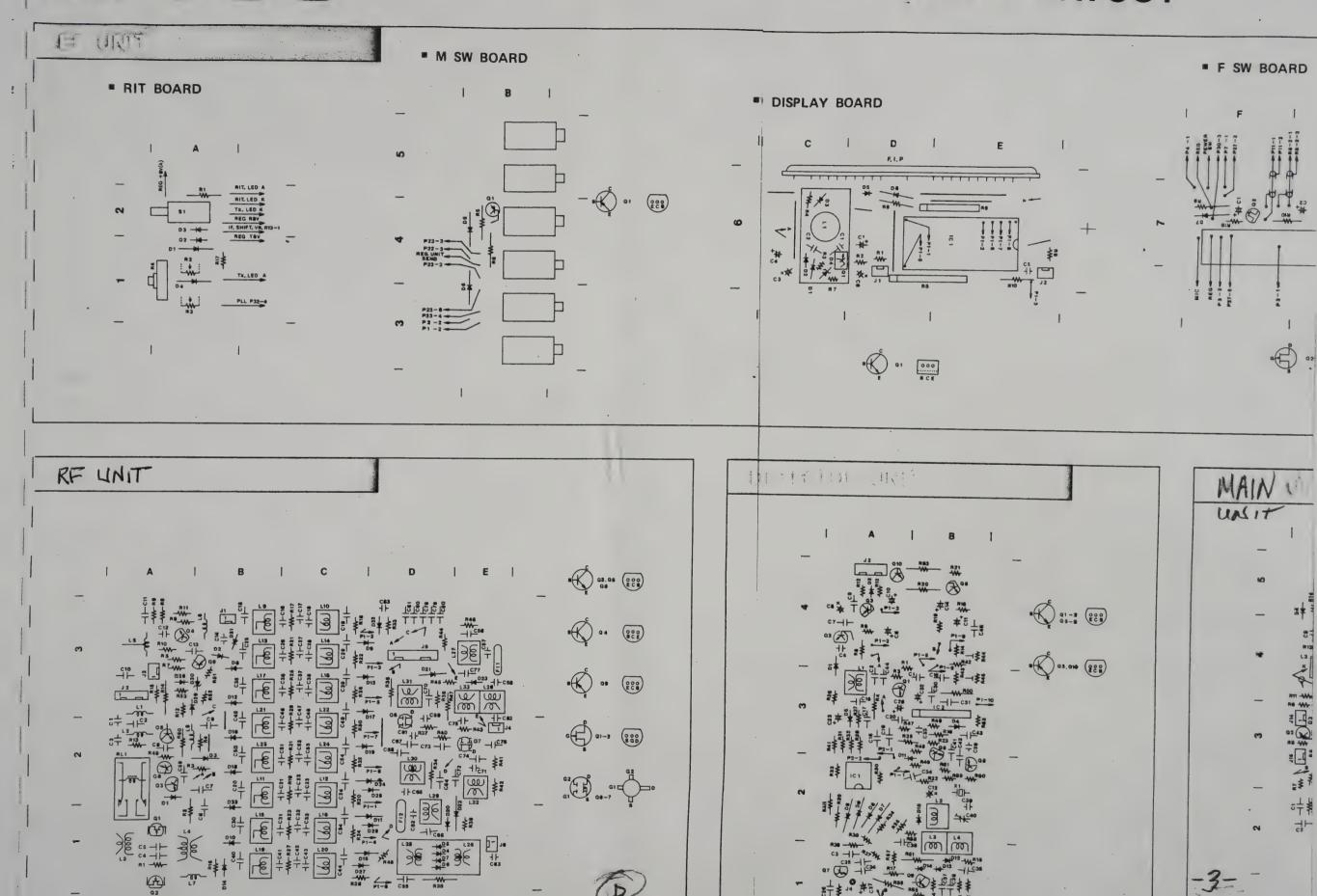


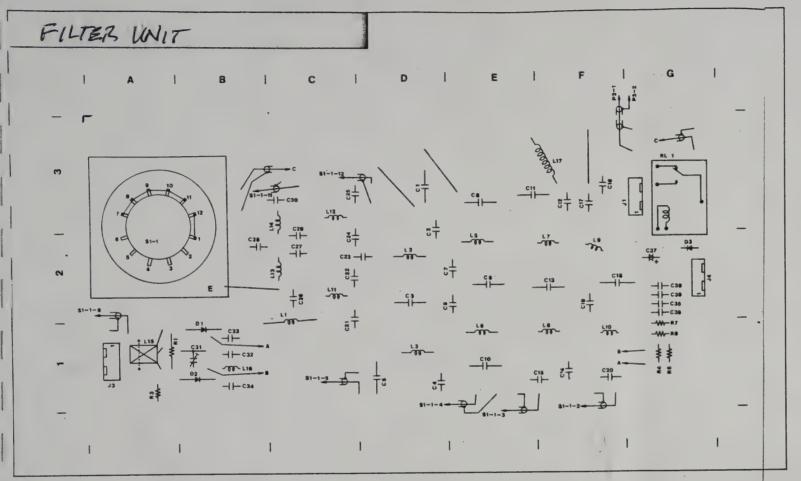


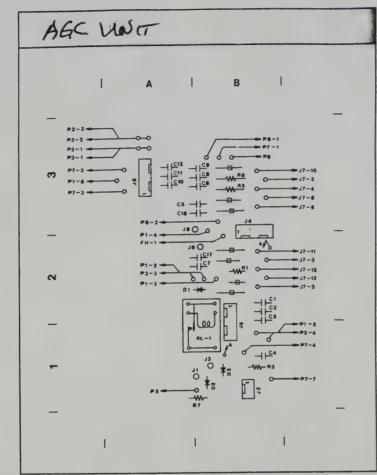


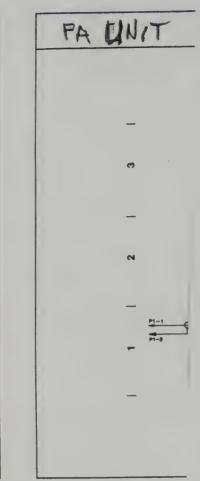
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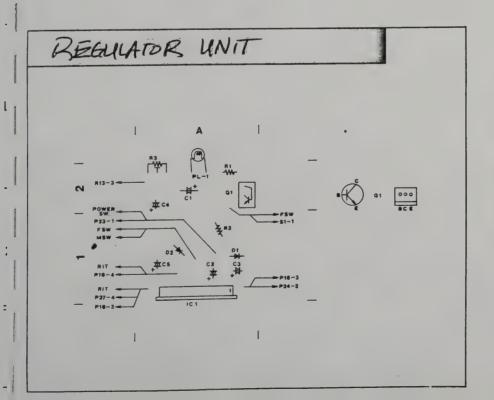
BOARD LAYOUT

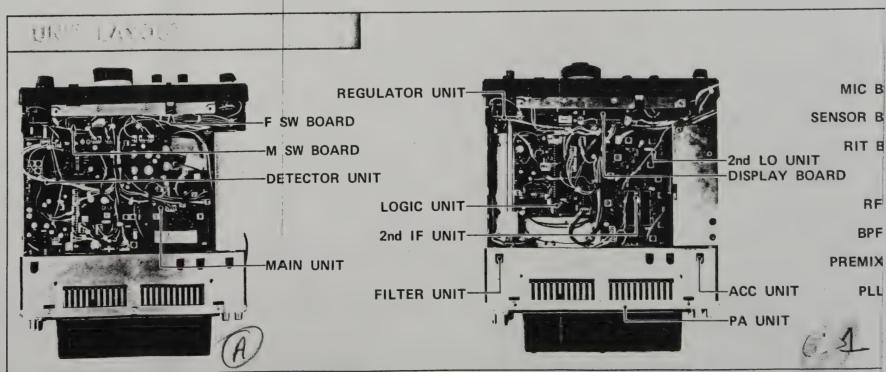


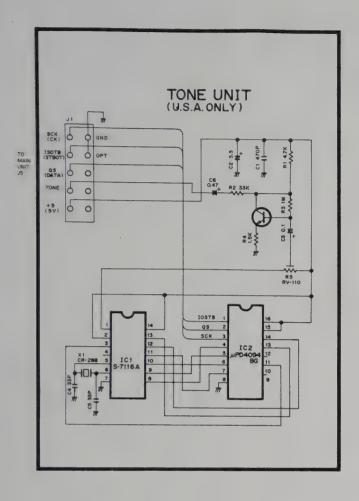


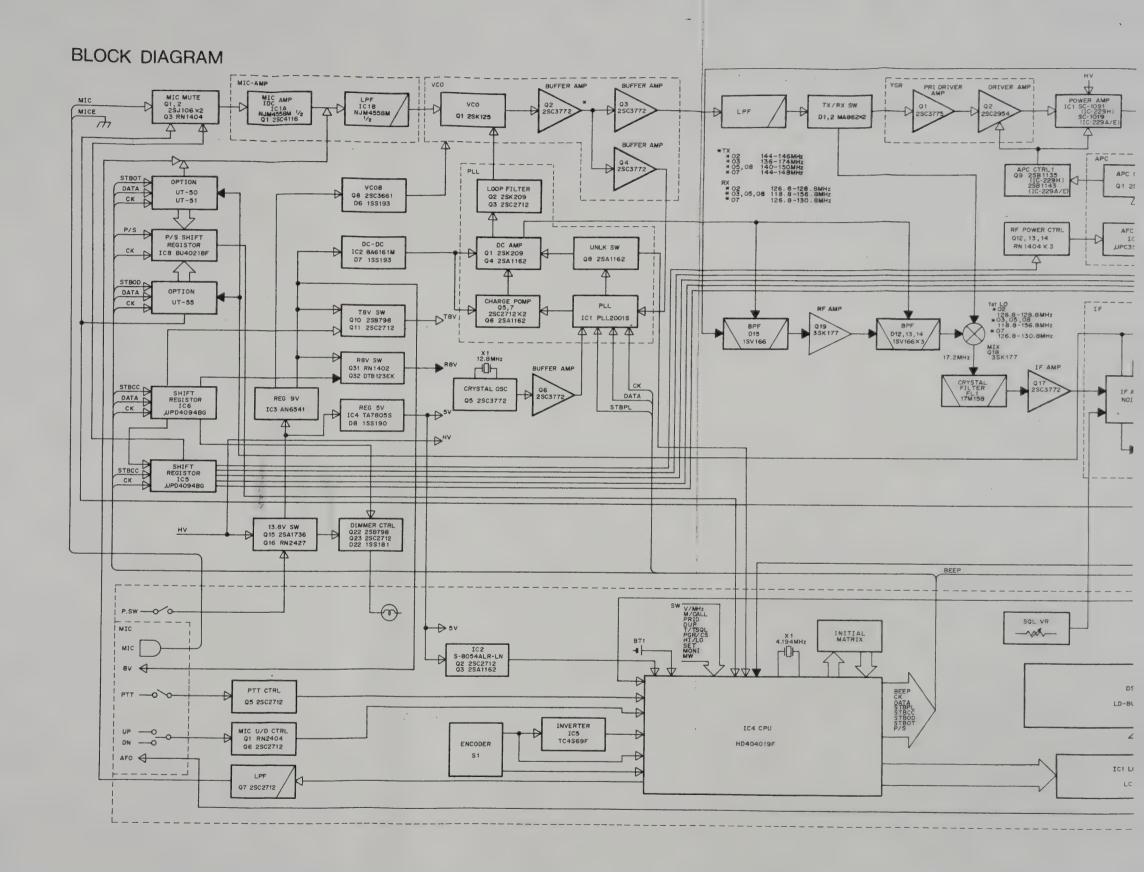


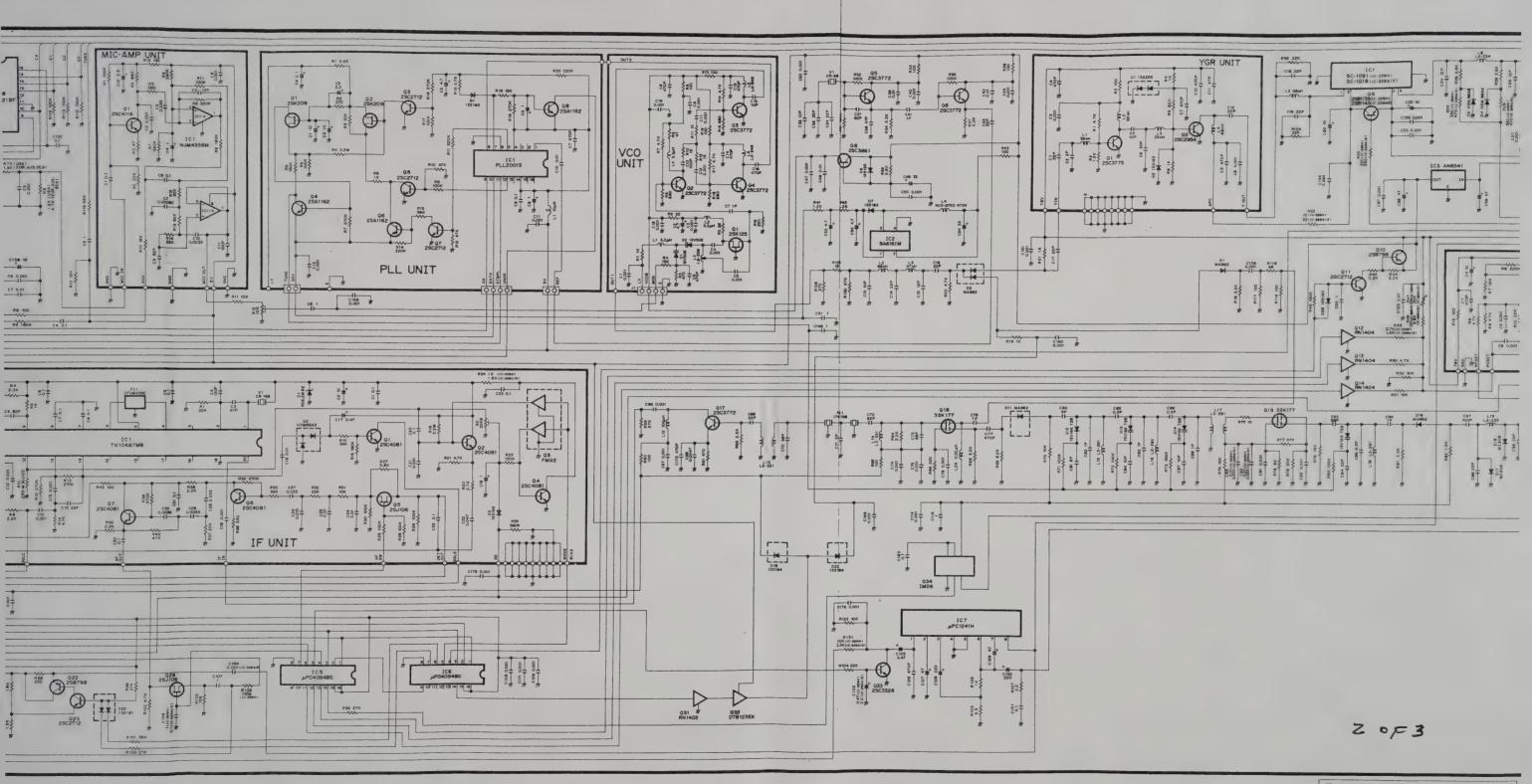






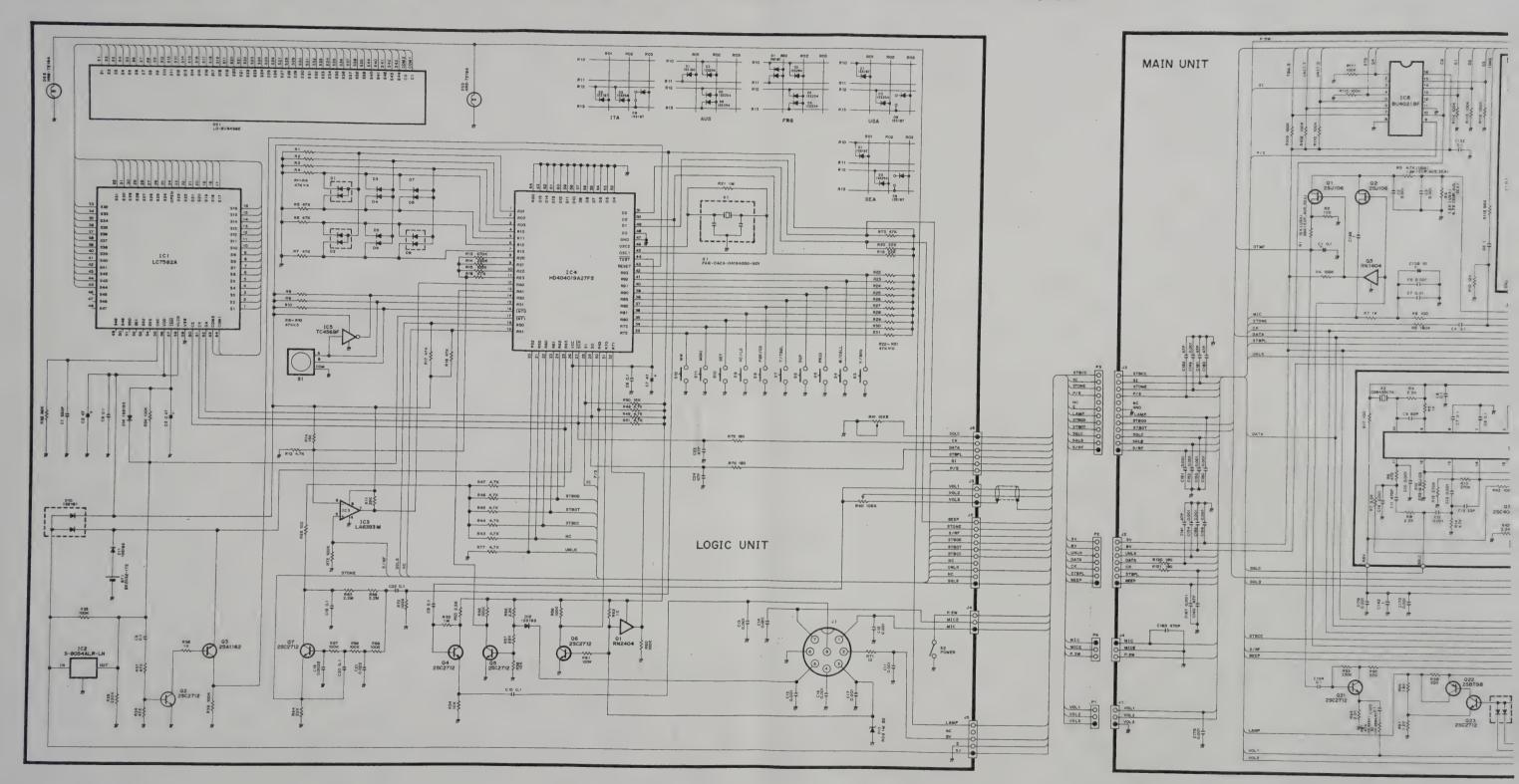




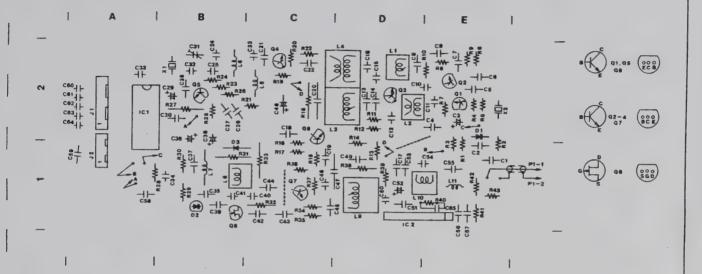


To upgrade quality, some components may be subject to change without notice.

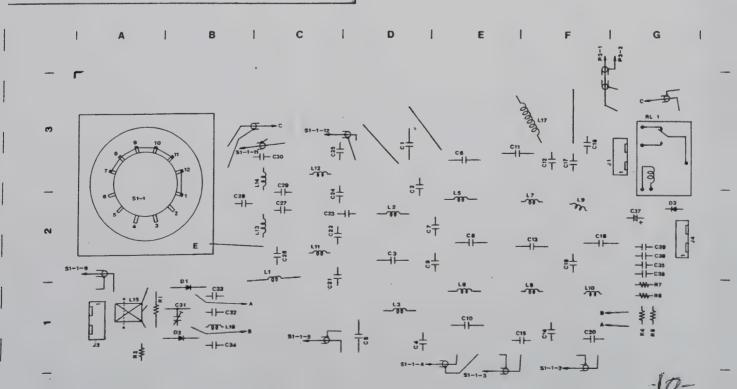
IC-229A IC-229E IC-229H SCHEMATIC DIAGRAM



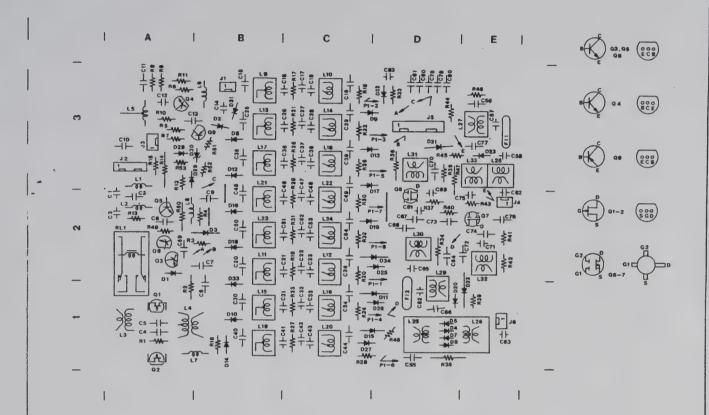
PLL UNIT

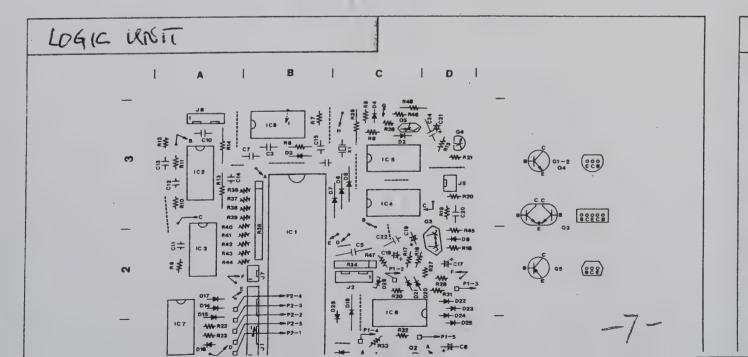


FILTER UNIT



RE UNIT





After transmitting, if the cooling fan is on, don't turn the POWER switch off until the set has had a few minutes to cool and the fan to switch off.

MEMORY OPERATION

Twenty memory channels, numbered 00 through 19, are available for storing frequencies and modes after selection on the vfos. The two vfos, denoted VFO A and VFO B, each hold frequency and mode independently, so there are actually 22 memories altogether.

VFO A/B Selection

The current operating vfo is indicated by "VFO A" or "VFO B" displayed to the left of the frequency. To select the alternate vfo, press the left (VFO) side of the VFO/MR button while receiving on a vfo. The frequency and mode of the other vfo are retained until selected again (in the same way).

VFO/Memory Selection

The memory number is always indicated on the display to the right of the operating frequency. While receiving on a vfo, press the right (MR) side of the VFO/MR button to select operation on the displayed memory: "MR" is displayed to the left of the operating frequency during memory operation.

To return to vfo operation from a memory, just press the "VFO" side of the VFO/MR button: once for the last-used vfo, and again for the alternate vfo.

Memory Storage

This procedure allows storage of the vfo mode and frequency into a memory channel;

- (1) Set the vfo to the frequency and mode of emission to be stored.
- (2) Press the MR side of the VFO/MR button to switch to memory operation.
- (3) Press the microphone DWN/UP keys or turn the tuning knob to select an unused memory channel (default data is 10.000 MHz LSB in all channels), or one you are willing to overwrite.
- (4) Press the VFO side of the VFO/MR button to return to the vfo.
- (5) Press the VFO M button to write the data from the vfo to the memory (operation remains on the vfo).

Note that the VFO-M key overwrites (erases!) the previous memory contents. Steps (2), (3) and (4) are required only to select the memory channel that is to be written. If you already know that the selected memory is free to accept new data, these steps can be skipped.

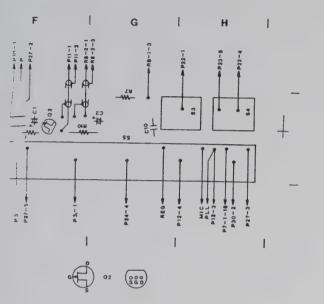
Memory Recall

- Press the right side of the VFO/MR button to recall memories: the display and mode indicators will change to the displayed memory's data.
- (2) While watching the memory number (beneath "CH" at the right side of the display), press the DWN and UP keys on the microphone or turn the tuning knob to select different memories.

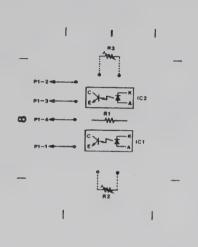
The mode of a recalled memory may be changed temporarily by the MODE keys. When another memory or a vfo is selected, the temporary mode selection is cancelled (but see the next procedure).



F SW BOARD



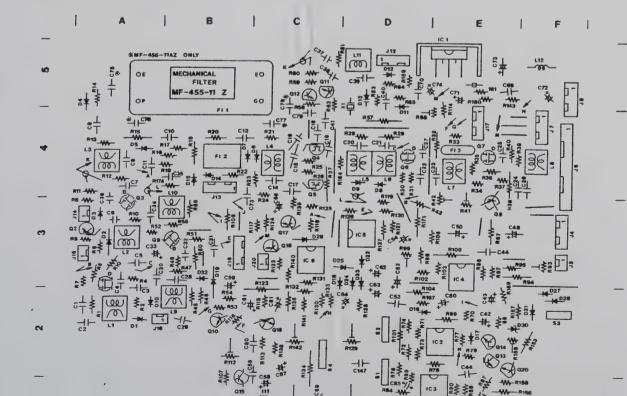
SENSOR BOARD



MIC BOARD



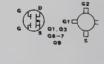
MANUNIT



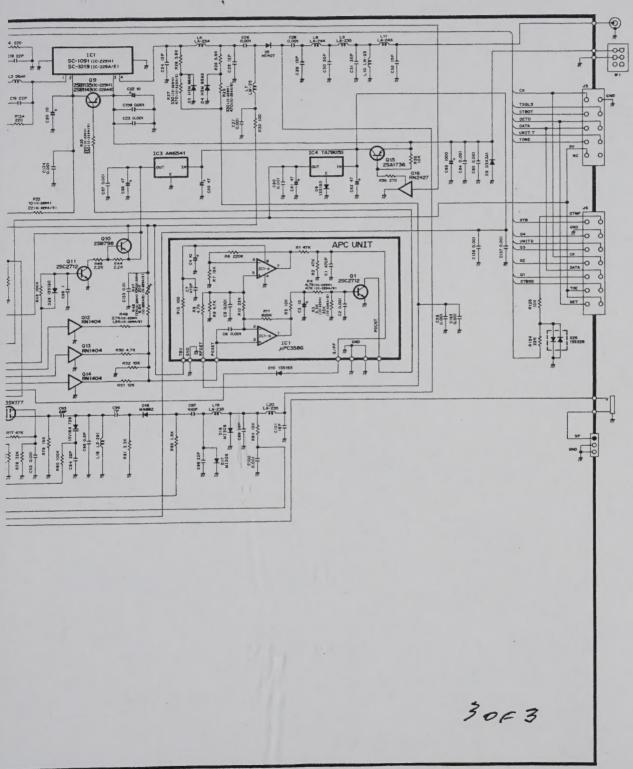




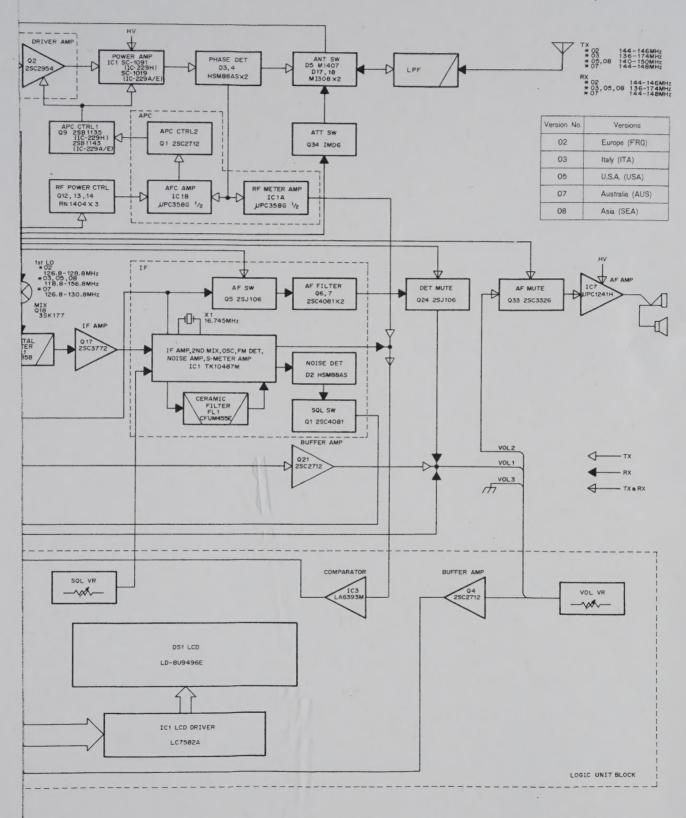




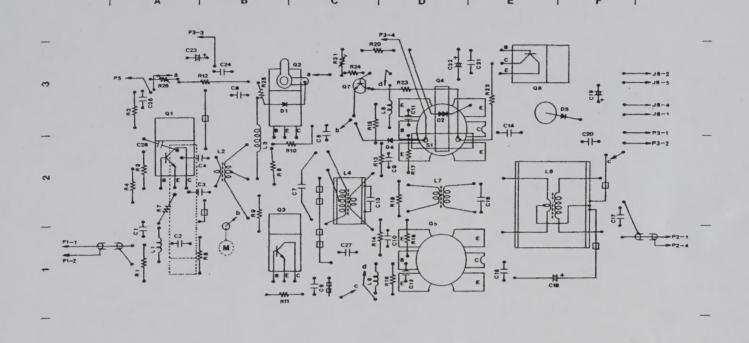
- 4-

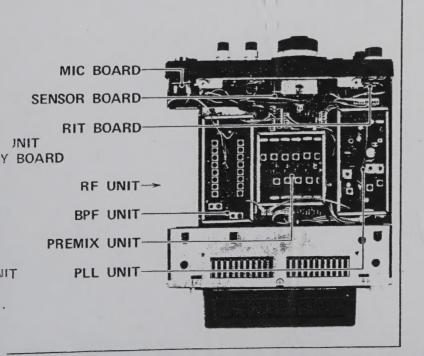


BLOCK DIAG.



PALLINT







ICOM INCORPORAT

Some components subject to for an improvement without

Printe

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